Missouri Southern
State College

SOUTHERN

2001–2002 Catalog


HEARNES HALL


STUDENT CENTER


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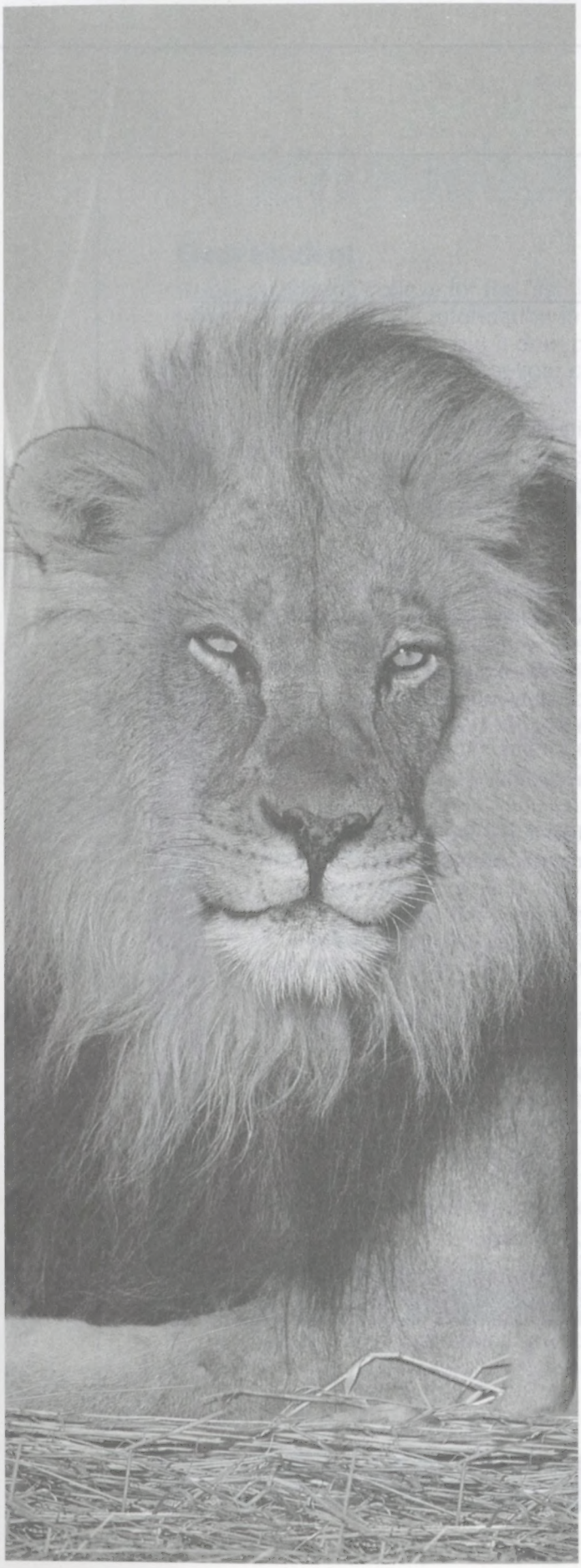

MISSOURI SOUTHERN STATE COLLEGE

2001-2002 Catalog

This catalog is for information purposes and does not constitute a contract. Information on courses, fees, requirements and policies are subject to change.

From the President

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body.

You will discover here one of the finest values in higher education anywhere, with quality academic programs, small classes, excellent and accessible professors, and reasonable cost.

Our curriculum combines a liberal arts foundation with a professional orientation and a strong commitment to the international aspects of education in order to prepare you for lifelong learning and a successful career in a rapidly changing and competitive world.

We invite you to come to our beautiful campus and visit with our faculty and staff so that you can experience true "Southern" hospitality and learn for yourself how Missouri Southern can prepare you for the 21st Century.

Julio S. León

Julio S. León, President

Dear Student,

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

1. ***Can I get some financial help with college costs?***

   Yes, a full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnes Hall 114, 417-625-9325. *(Financial Aid, page 41)*

2. ***I haven't decided on a major yet. What do I do?***

   Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Kelly Wilson, Hearnes Hall 115, 417-625-9324. *(Student Support Center, page 20)*

3. ***I'm concerned about the transition from high school to college. Is there someone to help?***

   The Student Support Center can help here too, as well as your College Orientation class. See Susan Craig, Hearnes Hall 115, 417-625-9324. *(Orientation, page 22)*

4. ***Do you have an Honors Program?***

   Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Patricia Kluthe, Webster Hall 118, 417-625-9686. *(Honors Program, page 51)*

5. ***What activities and organizations are available?***

   A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Billingsly Student Center 101, 625-9320. *(Student Activities, page 22. See also individual departments.)*

Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- fulfill its mission and objectives in an honorable and ethical manner;
- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- continually assess the effectiveness of its programs in order to ensure their quality and integrity.

International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission was prompted by a realization that the truly successful citizens of the 21st century will need much greater knowledge and awareness of the people, languages and cultures of other countries of the world if true communication among the world's citizens is to take place. Dramatic changes in the economic and political systems of Russia and Eastern European countries as well as challenges by Asian and European countries to American economic leadership made self-evident in the 1990s the need for a new kind of college education, one with a strong global perspective.

In July of 1994, Governor Mel Carnahan signed into law House Bill No. 442 in which Section 1 reads as follows: *"The Missouri Southern State College located in Joplin, Jasper County, is hereby designated a moderately selective institution which shall provide programs which meet the needs of the citizens, businesses, and industries of its service area as defined in section 174.010, RSMo, as well as counties contiguous to Jasper County. The institution shall develop such academic support programs and public service activities it deems necessary and appropriate to establish international or global education as a distinctive theme of its mission."*

Thus, with a stroke of a pen, the Governor of Missouri provided MSSC and its students a distinctive status among colleges and universities in Missouri. With it came the official state funding support for new, exciting initiatives that have enabled Missouri Southern State College to institute for its students daringly new international programs and activities to prepare them well for the challenges of this new century.

It is a well accepted fact that in today's world economy a high school diploma is no longer enough to secure a comfortable standard of living for one's family. As we have moved from the industrial to the information age, the well-paying assembly line jobs of the past are unfortunately disappearing and giving way to jobs that require a good college education. Thanks to its designation as a college with an international mission, Missouri Southern is in a position to lead in the development of graduates who will face with confidence this now evident global environment.

Missouri Southern State College has phased in over several years, different programs and activities designed to internationalize the college. Among these are:

- Including a global perspective in every possible course.
- Expanding the teaching of foreign languages to include new majors, new approaches, and new opportunities for language usage.
- Increasing opportunities for Missouri Southern students to study abroad for varying periods of time.
- Staging conferences and lectures on world affairs, and cultural and artistic programs with international performers as well as emphasizing one particular culture each year.
- Creation of dynamic majors in international studies and international business with uniquely designed courses.
- Increasing the participation of international students in campus activities.

As these programs continue and equally exciting new programs are implemented, our present and future students will be well prepared for the global environment of this new century.

A Student's Guide to the Baccalaureate Degree

Non Scholae Sed Vitae Discimus
"Education not for a living, but for life."

We the faculty at Missouri Southern believe that you achieve a complete education through an interrelated program of study which includes the **Core Curriculum** and **classes** in your **major**, as well as the extra-curricular opportunities available to you that complete the total collegiate experience. We realize that over a lifetime many of you will change occupations and careers several times. While specialized knowledge in your field is essential, we believe that certain lifelong thinking and learning skills and a common body of knowledge are critical for an understanding of yourself and your larger community and for career advancement in the 21st-century marketplace. Specifically, we are committed to assist you as an undergraduate to

- Acquire knowledge, both in breadth and depth, through exposure to a wide variety of disciplines and through majoring in your chosen field.
- Communicate with precision and style and to think clearly and critically.
- Achieve competence in quantitative skills.
- Know the methods of inquiry and thought necessary for understanding nature, society and self.
- Sharpen your awareness and appreciation of other cultures with their differing values, traditions and institutions.
- Develop lasting intellectual and cultural interests.
- Learn more about yourself and demonstrate mature decision-making skills.
- Achieve greater social maturity and tolerance for human diversity through the experience of working closely with a wide variety of fellow students and faculty members.

Core Curriculum

The Core Curriculum at Missouri Southern is a carefully designed series of courses that all students earning a bachelor's degree must complete. It is our effort to furnish you a liberal education. But why? What about the Core is so important that it constitutes nearly half of the credit hours necessary for your degree?

One way to answer that question is to reflect on another: What does it mean to be well-educated? After all, that is what a college degree signifies, that you are a well-educated man or woman. While the question has generated much debate and while there is no simple answer, most agree that a well-educated person possesses certain fundamental intellectual skills, a broad knowledge of the world and a deep knowledge of a particular subject. While pursuit of a major field of study furnishes knowledge in depth, it is the Core Curriculum that seeks to arm you with the powers of mind and the breadth of knowledge that characterize the well educated.

Goals of the Core Curriculum

The College defines three broad powers of mind that are essential to the well-educated:

Communicating. Well-educated people can communicate effectively to inform, to understand, to analyze and to persuade, and they do so not only with words but with numbers, graphs and symbols. Whether reading or listening, speaking or writing, our graduates can communicate well.

Critical thinking and problem solving. Critical thinking means to look at the world from a variety of perspectives, weigh evidence, sort through implications and think clearly towards understanding. Our graduates can think critically to solve problems—be they scientific, social, or personal—analyzing them and devising solutions.

Clarifying values. All choices are guided by value judgments, judgments about the way things ought to be. A well-educated person can identify personal values and the values of others, understand how such values develop and analyze the implications of choices made on the basis of value judgments.

The College defines three broad areas of knowledge the well-educated must master:

Functioning within social institutions. A well-educated person must understand the complex fabric of society: governmental and economic systems, religion, family institutions, civic duties, the worlds of work and play—the whole range of things that constitute a culture. Our graduates can understand the influence social institutions have on themselves and others.

Understanding science and technology. Science is one of humanity's most important tools for understanding the world, and technology for controlling it. Well-educated people possess not only a fundamental scientific and technological knowlege but also the capacity to evaluate the impact of science and technology upon humanity and the environment.

Understanding the arts. The arts are another of humanity's most important tools for comprehending existence, but the diverse arts—from literature, film and theatre to architecture, music and painting—also enrich experience. A well-educated person can analyze and interpret works of art and also analyze how they express and in turn influence a culture.

These six goals have shaped the faculty's design of your Core Curriculum. From one point of view, the Core Curriculum is still an array of courses from which students choose. But it is more than that. The word *core* is derived from a root that means heart. We the faculty believe that your experience in our Core Curriculum is the heart of an excellent education. It also provides the foundation for your study of your major.

Three major strands are woven into the college's curriculum in both the Core and the major: writing, computer literacy and international education. First, because writing is among the most crucial skills, Southern ensures that writing permeates the total course of study, starting in freshman composition courses and continuing through writing intensive courses in each major. Second, no one unfamiliar with computers will be prepared to face the 21st Century, so Southern has devised a computer literacy program to enable all its graduates to use these powerful tools. And third, as detailed elsewhere in this catalog, Southern has a special emphasis in international education. An awareness of other peoples, languages and cultures is becoming increasingly necessary. In every possible course, the curriculum includes a global perspective.

Your Major

The College offers more than 60 majors in a wide variety of fields. Your pursuit of your major will furnish you with the knowledge in depth that is also characteristic of a well-educated person. Some students come to Southern with a clearly defined idea of their major; others come uncertain, relying on their exposure to the Core Curriculum and on experimenting with a few elective courses to help them choose.

In either case, when you emerge with your baccalaureate degree, you will have mastered a body of knowledge that sets you apart from well-educated people in other fields. Often it is your mastery of a particular discipline that makes you of great value in the workplace. Not only do you emerge knowing a great deal, but you also emerge armed with the power to learn more, to extend your knowledge.

Special Features of Missouri Southern

A comprehensive education fostering life-long learning is the aim of our liberal arts curriculum. Southern strives to present the best in higher learning. The following features distinguish our college.

Emphasis on Teaching. The heritage of Missouri Southern is that of an undergraduate college where the interaction between teacher and student is of primary importance in the learning experience. Here you will be taught by professors with degrees from the most prestigious universities across the nation.

International Mission. The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum and to add the international dimension to all of our courses wherever possible.

Assessment of Outcomes. Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all the majors. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up-to-date and not a static monument to past practice.

Total Collegiate Experience. A great deal of college education happens outside the classroom. An array of extracurricular activities is offered to meet almost every academic and social interest. In addition, a variety of services are available for the student to meet educational and personal needs.

Diverse Student Body. Not all students at Southern are the same age or from the same region or nation. We see its sizable enrollment of nontraditional students (those over 25) and international students as a great advantage. Rarely do we find "real world" situations in which people interact exclusively with others of their own age and hometown. On our campus, students come to see each other as friends and allies and learn to develop healthy and supportive relationships with a variety of people.

Enrichment Programs. Your opportunity for total education is enriched through a variety of special programs including the Honors Program, study abroad at Oxford University and Cambridge University in England, Folkhögskola in Sweden and in Mexico at Morelia, Michoacan, internships and independent study opportunities and special cultural events such as the biennial Missouri Southern International Piano Competition.

More complete information on each of these features is found in the catalog. And of course, our faculty and staff are always willing to help you in any way to make the most of your college experience. Don't hesitate to ask. We're here for you!

Assessment of Outcomes

Goals of Assessment of Outcomes

Assessment is an ongoing, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing results, redefining goals and improving programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

1. **Evaluation of institutional effectiveness by research and assessment of:**
   a. Core Curriculum programs and school departments
   b. Academic and developmental student outcomes
2. **Improvement of both academic and student affairs programs:**
   a. To increase student academic and developmental outcomes
   b. To increase student retention and degree completion
3. **Provision of data needed for long-range planning to fulfill the college mission**
4. **Fulfillment of governmental mandates**

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, ongoing assessment is conducted not only by professors in the classes offered each semester, but also by faculty and administration in annual program reviews. The Center for Assessment and Institutional Research assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

Program for Assessment of Outcomes

Importance of assessment for college accountability is underscored by a **Board of Regents Policy that requires that students participate in assessment activities when requested.** Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for the analysis phase of our assessment plan. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and THEIR employers are conducted periodically.

Core Curriculum: Data for study is gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The AP (Academic Profile) from the Educational Testing Service is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. Students are called upon to analyze, synthesize, apply and evaluate information, rather than just to recall or recognize content.

Departmental Majors: The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs. A variety of assessment methods are used by the various departments.

Departments that offer degrees leading to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include computer information science, dental hygiene, education, medical technology, radiologic technology, respiratory therapy and nursing. Departments that use standardized major field tests offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, criminal justice administration, English, environmental health, history, management technology, mathematics, physics, sociology, music, and psychology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, political science, Spanish and theatre departments have developed such plans.

Student Development: The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both inside and outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering and graduating students each year to assess current attitudes and opinions as well as trends in that information. Missouri Southern State College participates in three rotating statewide surveys that give us comparative data from currently enrolled students, alumni and employers of our graduates. Retention and graduation rate studies also give important information on the flow of students through our system of higher education.

National Recognition for MSSC's Assessment Program

MSSC's Assessment Program has been recognized as exemplary by American College Testing, Inc. (ACT). The program was featured in ACT's Winter 1997 newsletter. Several presentations at national assessment and research meetings have highlighted MSSC's Assessment Program as a model for other institutions. This is only possible with the support and vision of our Board of Regents, College President, other administration, and faculty.

Results of Assessment of Outcomes Core Curriculum

As our Assessment program matures, we have an ongoing commitment to use the data collected from tests, surveys, etc. to analyze trends and link results to the planning process. Teams of students, faculty, administrators and staff have studied the data. Assurance of the quality and effectiveness of our Core Curriculum has been the result.

For example, the Core Curriculum study resulted in a consensus that what we teach in our Core fits our mission, but how we teach the Core and major courses should be the focus. For that reason several initiatives on campus are studying new approaches to involve students more effectively in the learning process. Other issues include analysis of a faculty members' teaching, modeling and requiring critical thinking in the classroom and requiring more extensive communication skills as students complete coursework. Inventories of the Seven Principles of Good Practices in Undergraduate Education from students, faculty and administration have helped us understand how we can improve the process of learning at Missouri Southern. Our process in the use and analysis of the Seven Principles surveys garnered a spot on the official web site of the Seven Principles Resource Center, Winona State University. A description of our project along with examples of our reporting instruments is included.

Means and Percentile Scores of 1998 Missouri Southern State College Seniors on the Academic Profile Test Compared to National Norms

The table below displays mean scores for the sample of Missouri Southern students who took the Academic Profile in Spring 1998. Southern students scored above the national average in all seven areas of the Academic Profile test.

Academic Profile Results

	MSSC		NATIONAL	
Areas of Study	**Mean**	**%-tile**	**Mean**	**%-tile**
Humanities	118	71	116	35
Social Sciences	116	54	115	44
Natural Sciences	120	83	118	44
Reading	122	71	120	44
Writing	118	63	117	42
Critical Thinking	114	65	113	44
Math	116	65	115	44

Average Scores of Missouri Southern State College Seniors on the 1993-97 Student Opinion Surveys

Results of confidential student opinion surveys administered to graduating seniors during Assessment Days 1993-97, show that students perceive their treatment and experiences at Missouri Southern to be fair and their education to be of high quality. Their survey results are displayed in the table above along with ACT national reference norms for 1995. The students were asked to use the following nomenclature:

5 = Very Satisfied, 4 = Satisfied, 3 = Neutral,
2 = Dissatisfied, 1 = Very Dissatisfied

Our yearly ratings for most categories tend to be stable, or trending upward, and the five-year averages are above the national norms for every question in the table.

MSSC Student Opinion Survey Averages/National Norms

Category	1993	1994	1995	1996	1997	5 Yr. Ave.	ACT Norm
Class size relative to type of course	4.37	4.44	4.45	4.52	4.52	4.46	4.13
Instruction in major field	4.21	4.28	4.42	4.30	4.35	4.31	3.93
Attitude of faculty toward students4.20	4.20	4.24	4.37	4.32	4.48	4.32	3.98
Availability of adviser	4.22	4.28	4.28	4.34	4.27	4.28	3.80
Out-of-class availability of your instructors	4.20	4.21	4.29	4.26	4.19	4.23	3.92
Honors program	4.32	4.32	4.21	4.08	3.63	4.11	3.90
General condition of buildings	4.22	4.18	4.24	4.09	4.22	4.19	3.70
Course content in major field	4.11	4.10	4.31	4.23	4.21	4.19	3.82
Student employment services	4.17	4.11	4.14	4.23	3.60	4.05	3.87
Student health services	4.01	4.12	4.09	4.06	4.04	4.06	3.55
Computer services	3.95	4.13	4.06	4.03	3.72	3.98	3.82
Value of information provided by adviser	4.00	4.08	4.08	4.11	4.13	4.08	3.71
Classroom facilities	4.06	4.03	4.08	4.05	4.08	4.06	3.71
Cultural programs	3.99	3.93	3.90	4.17	3.78	3.95	3.77
Veterans services	4.15	3.88	3.76	4.18	3.33	3.89	3.88
College sponsored tutorial services	3.83	3.93	4.04	3.88	3.73	3.88	3.86
Testing/grading system	3.90	3.88	4.03	3.98	4.03	3.96	3.75
Personal counseling services	3.94	3.98	3.86	4.14	3.57	3.90	3.88
Library facilities and services	3.98	4.04	3.88	3.94	3.72	3.91	3.80
Preparation for future occupation	3.89	3.97	3.96	4.02	4.10	3.99	3.72
Job placement services	3.87	4.06	4.04	4.13	4.13	4.05	3.55
Career planning services	3.75	4.02	3.98	4.19	4.05	3.99	3.73
Catalog/admissions publications	3.83	3.92	3.93	3.95	4.06	3.94	3.86
College-sponsored social activities	3.69	3.76	3.65	3.88	3.76	3.75	3.69
Racial harmony at this college	3.65	3.72	3.80	3.74	3.85	3.75	3.55
Concern for you as an individual	3.67	3.72	3.75	3.77	3.86	3.75	3.48
Opportunities for involvement in campus activities	3.67	3.73	3.72	3.78	3.73	3.73	3.67
Accuracy of college information received before enrolling	3.68	3.69	3.73	3.85	3.87	3.73	3.67

Fee Policies

Schedule of Fees

Tuition and Incidental Fees For 1997-98

Tuition *(per credit hour)*	
Missouri residents	$75.50
Non-residents	$151.00
Textbook Rental Fee *(per credit hour)*	$5.00
Equipment Use Fee - full time students	$20.00
part time students	$10.00
Student Activity Fee - full time students	$25.00
part time students	$15.00
Parking Fee	$15.00
Records Fee	$3.00

Other College Fees

Application for Admission *(non-refundable)*	$15.00
Change of Class Schedule *(add/drop fee)*	$5.00
Late Registration	$10.00
Student ID *(first time students)*	$ 2.00
(replacement card)	$5.00

Special Course Fees

Applied Music *(per credit hour)*	$65.00
Art Materials *(varies with course)*	$5.00 - 40.00
Dental Hygiene *(first term)*	$999.00
Education Course Materials *(varies with course)*	$2.00 - 8.00
EMT-Paramedic	$611.00
Freshman Orientation	$15.00
Manufacturing Technology	$15.00
Music Recital *(senior music majors only)*	$50.00
Music Techniques	$100.00
Nursing	$200.00
Photography	$25.00
Law Enforcement Academy	$800.00
Radiologic Technology *(first term)*	$100.00
(all other terms)	$40.00
Science Laboratory Breakage and Materials	cost
Science Courses with Labs	$5.00

Residence Hall Fees

Residence Hall Cost *(per semester)**	$1735.00
Apartments *(per semester)**	$1750.00
Refundable Security Deposit	$150.00

*Payable in five (5) payments

Other incidental fees for supplemental class materials, testing or other course-related costs may be assessed as required.

The College reserves the right to change fees without notice.

Payment of Fees

1. **Tuition and Incidental Fees**

For all students who have pre-registered, at least 50% of the semester charges must be paid two weeks prior to the first day of classes for that semester. The remaining balance on account will subsequently be due before the end of the fourth week of the semester. Failure to remit the first 50% installment according to these payment terms will result in an immediate drop from all pre-registered classes before regular registration.

For students who enroll during regular registration, payment of 100% of the fees charged will be due and payable on the day of registration. Failure to remit the balance due will result in an immediate drop from the student's class schedule.

Statements of account will be mailed to all pre-registered students prior to the initial payment deadline. Subsequent statements will be mailed monthly.

It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Services are rendered as of the first day of class so unless a student officially withdraws prior to that day, fees will be assessed in full. No reduction in charges according to the College refund policy will be credited to the student's account until an official withdrawal is completed. Failure to pay fees in accordance with the stated payment plan will not necessarily relieve the fianancial obligation incurred if the student is dropped for non-payment.

Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term, and by January 1st for the Spring term in order to receive consideration for payment deferment.

Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations as set forth for students attending day classes. Special fees for classes not applicable toward a degree program will be announced in the Evening Session Bulletin.

Students enrolled in summer classes will be subject to the same fees, rules and regulations as followed in the Fall and Spring semesters immediately preceding the Summer Session.

Appeals concerning special problems pertaining to fees should be directed in writing to the Treasurer in Hearnes Hall, Room 210.

2. **Residence Hall**
   Students will not be permitted to move into the Residence Halls without remitting payment of at least 50% of tuition and 40% of Residence Hall fees.

   As stated in the contract agreement, students will be responsible for the full semester fee, except as specified in the contract, once they have checked into the Residence Halls even upon complete withdrawal from school. The security deposit will be refunded only if the terms of the contract have been fulfilled.

Explanation of Fees

Admission Application Fee - a non-refundable administrative fee required upon submission of an application for admission.

Change of Class Schedule - an administrative fee charged for each class change (add or withdrawal) made after the first week of the semester.

Equipment Use - an incidental fee assessed each semester which enables the College to provide the most technologically current equipment for use in the classroom and laboratories. All fees collected will be used solely for the purchase of equipment which will directly benefit the students in their college course work.

Late Registration - an administrative fee assessed to students who enroll for classes after the first full week of the semester.

Parking - an incidental fee assessed each semester to cover all costs associated with vehicle registration, roadway & sidewalk maintenance and campus security.

Records Fee - an incidental fee assessed to all students each semester to cover an unlimited number of transcripts, cap and gown and diplomas. This replaces the old transcript and commencement fees.

Special Course Fees - fees are charged for additional course materials and/or services for specific courses. Courses include but are not limited to art, music, education, dental hygiene, nursing, radiology and photography.

Student Activity - an incidental fee assessed each semester to support various aspects of campus life including student activities, student government, student publications and other events and services provided by the College.

Student I.D. Card - a one-time fee assessed to all new students allowing the issuance of a photo identification card. This card is required not only for identification purposes but also must be presented in order to check out library materials, to be admitted to campus activities, to obtain meals under the Residence Hall meal plan or to conduct business in various campus offices such as Financial Aid, Cashiers Office, Ticket Office, etc.

Textbook Rental - a per credit hour fee assessed for the use of rental textbooks. The College operates a rental system through the College Bookstore which allows the use of the required textbook by the student for one semester. Before rental books may be issued, the student is required to have paid at least 50% of the total fees due for the semester. Students are required to return these textbooks within 24 hours of the completion of their last final exam for the term. Textbooks not returned within 24 hours will be charged to the students account. It should be noted that some classes may require the purchase of supplemental books and materials not available through the rental system. These materials may be billed to the student's account but must be paid within 30 days.

Refund Policy
(Except for Residence Hall Charges)
During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college, the fee refund policy is as follows:

For Fall and Spring Semesters

Prior to the end of the first week of classes	100% refund
Second through fifth weeks	60% refund
After the fifth week	0% refund

For Summer Semester

Prior to the end of the first week of classes	100% refund
Second and third weeks	60% refund
After third week	0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition.

First time students at the College who receive Federal financial aid under Title IV and who totally withdraw from classes during their first academic year shall receive a pro-rata refund based on a Federally mandated schedule. Copies of the refund schedule are available in the Business Office.

To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.

If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Treasurer. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Residence Life contract.

Academic Calendar

June 2001

S	M	T	W	T	F	S
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3	4	5	6	7	8	9
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July 2001

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August 2001

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September 2001

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October 2001

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November 2001

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2001 SUMMER SEMESTER

June 1 . . . . . Day and Evening Registration
June 4 . . . . . **Classes Begin**
June 7 . . . . . Last Day for Full Refund of Fees
June 21 . . . . Withdrawal After This Date No Refund of Fees
July 4 . . . . . 4th of July Holiday
July 12 . . . . . Last Day to Withdraw From a Class with a "W"
July 23 . . . . . Last Day for Complete Withdrawal from College with all "W's"
July 25 . . . . . Last Day of Classes
July 23-26 . . . . . Final Examinations (Evening Classes)
July 26 . . . . . Final Examinations (Day Classes)

2001-2002 FALL SEMESTER

August 16. . . . . Day and Evening Registration
August 16. . . . . Freshman Assessment Day
August 17. . . . Faculty Study Conference & Day Registration
August 20. . . . . **Classes Begin**
August 24. . . . . Last Day for Full Refund of Fees
August 27. . . . Add/Drop Fees & Late Registration Fees Begin
September 3 . . . . . Dismissal for Labor Day
September 24 . . Withdrawal After This Date No Refund of Fees
October 19 . . . . . Last Day to Withdraw From a Class with a "W"
November 21-23 . . . . . Dismissal for Thanksgiving Holiday
November 26. . . . . Classes Resume
December 3 . . . . . Last Day for Complete Withdrawal from College with all "W's"
December 7 . . . . . Last Day of Classes
December 10-14 . . . . . Final Examinations
December 14 . . . . . End of Semester
December 15 . . . . . Commencement

2001-2002 SPRING SEMESTER

January 10 . . . . . Day and Evening Registration
January 11 . . . Faculty Study Conference & Day Registration
January 14 . . . . . **Classes Begin**
January 18 . . . . . Last Day for Full Refund of Fees
January 21 . . . Add/Drop Fees & Late Registration Fees Begin
February 15 . Withdrawal After This Date No Refund of Fees
February 20 . . . . . Senior Assessment Day
March 15 . . . Last Day to Withdraw from a Class with a "W"
March 11-15 . . . . . Spring Break
May 6 . . . . . Last Day for Complete Withdrawal from College with all "W's"
May 8 . . . . . Last Day of Classes
May 9 . . . . . Reading Day - No Finals
May 10-16 . . . . . Final Examinations
May 16 . . . . . End of Semester
May 18 . . . . . Commencement
May 20-June 1 . . . . . Intersession

December 2001

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January 2002

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February 2002

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March 2002

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April 2002

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May 2002

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Academic Calendar

June 2002

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July 2002

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August 2002

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September 2002

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October 2002

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November 2002

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2002 SUMMER SEMESTER

June 7 . . . . . Day and Evening Registration
June 10 . . . . . **Classes Begin**
June 13 . . . . . Last Day for Full Refund of Fees
June 27 . . . . . Withdrawal After This Date No Refund of Fees
July 4 . . . . . Dismissal for 4th of July Holiday
July 18 . . . . . Last Day to Withdraw from a Class with a "W"
July 29 . . . . . Last Day for Complete Withdrawal from College with all "W's"
July 31 . . . . . Last Day of Classes
July 29-August 1 . . . . . Final Examinations (Evening Classes)
August 1 . . . . . Final Examinations (Day Classes)

2002-2003 FALL SEMESTER

August 15 . . . . . Day and Evening Registration
August 15 . . . . . Freshman Assessment Day
August 16 . . . . . Faculty Study Conference & Day Registration
August 19 . . . . . **Classes Begin**
August 23 . . . . . Last Day for Full Refund of Fees
August 26 . . . . . Add/Drop Fees & Late Registration Fees Begin
September 2 . . . . . Dismissal for Labor Day
September 20 . . . . . Withdrawal After This Date No Refund of Fees
October 18 . . Last Day to Withdraw From a Class with a "W"
November 27-29 . . . . . Dismissal for Thanksgiving Holiday
December 2 . . . . . Classes Resume
December 2 . . . . . Last Day for Complete Withdrawal from College with all "W's"
December 6 . . . . . Last Day of Classes
December 9-13 . . . . . Final Examinations
December 13 . . . . . End of Semester
December 14 . . . . . Commencement

2002-2003 SPRING SEMESTER

January 9 . . . . . Day and Evening Registration
January 10 . . . . . Faculty Study Conference & Day Registration
January 13 . . . . . **Classes Begin**
January 17 . . . . . Last Day for Full Refund of Fees
January 20 . . . . Add/Drop Fees & Late Registration Fees Begin
February 14 . . Withdrawal After This Date No Refund of Fees
February 19 . . . . . Senior Assessment Day
March 14 . . . . Last Day to Withdraw From a Class with a "W"
March 17-21 . . . . . Spring Break
May 5 . . . . . Last Day for Complete Withdrawal from College with all "W's"
May 7 . . . . . Last Day of Classes
May 8 . . . . . Reading Day - No Finals
May 9-15 . . . . . Final Examinations
May 15 . . . . . End of Semester
May 17 . . . . . Commencement
May 19-May 31 . . . . . Intersession

December 2002

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January 2003

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February 2003

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March 2003

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April 2003

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May 2003

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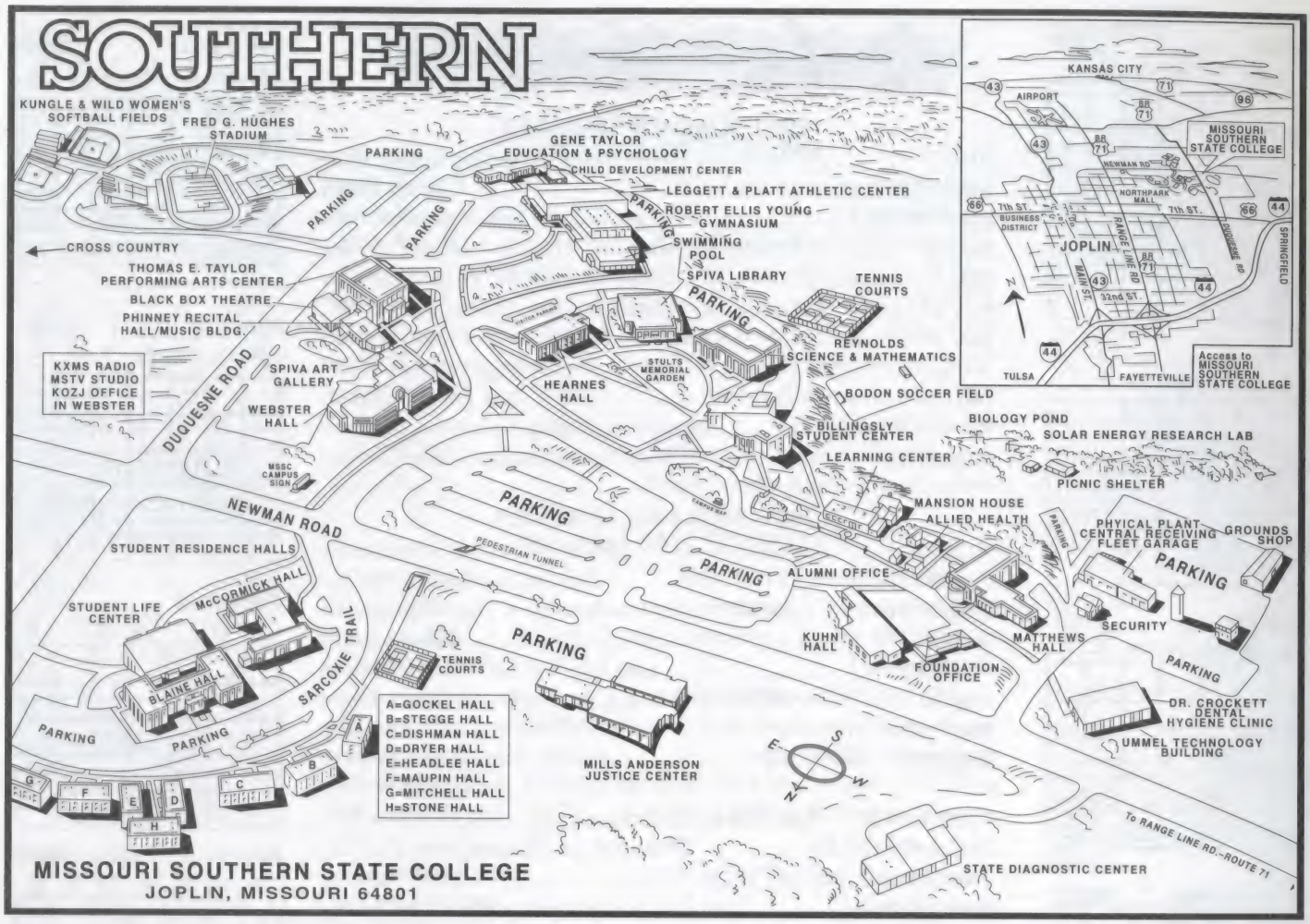


Anderson Justice Center
- Anderson Auditorium
- Criminal Justice
- Dean of Technology
- Emergency Medical Technology
- Firing Range
- Lifelong Learning
- Paramedic
- Regional Crime Laboratory
- Respiratory Therapy

Art Building
- Art
- Spiva Art Gallery of MSSC

Billingsly Student Center
- Bookstore
- Career Services
- Food Service
- Meeting/Game Rooms
- Public Information Office
- Student Activities
- Student Services
- Ticket Office

Biology Pond
- Picnic Pavilion
- Solar Energy Laboratory

Emergency Medical Services Annex
- Allied Health Services
- Alumni Office

Foundation House
- Missouri Southern Foundation

Hearnes Hall
- Administrative Offices
- Admissions
- English
- Financial Aid
- Registrar
- Student Support Center

Kuhn Hall
- Nursing
- Radiology
- Student Health Center

Leggett & Platt Athletic Center
- Arena
- Men's Athletic Director
- Men's baseball, basketball, Track
- Training Room
- Wellness Center
- Women's basketball

Maintenance Office
- Campus Security
- Central Receiving
- Greenhouse

Matthews Hall
- Business Administration
- Computer Information Science
- Matthews Hall Auditorium

Mission Hills Mansion Complex
- Learning Center

Music Building
- Music
- Phinney Recital Hall

Reynolds Hall
- Biology
- Mathematics,
- Physical Sciences

Spiva Library
- Archives
- Audio Visual Center

Dianne Mayes Student Life Center
- Cafeteria
- Computer Labs
- Meeting Rooms
- Recreational Facilities

Taylor Hall
- Child Development Center
- Psychology
- Teacher Education

Taylor Performing Arts Center
- Theatre

Ummel Technology Building
- Computer Aided Drafting/ Design Engineering Technology
- Dental Hygiene
- Manufacturing Information Management Systems
- Manufacturing Technology

Webster Hall
- Communications
- Continuing Education
- Honors Program, KXMS Radio
- KGCS/MSTV Studio
- Social Science
- Webster Hall Auditorium

Young Gymnasium
- Football Office
- Kinesiology
- Sports Information Office
- Swimming Pool/Racquetball
- Women's Athletics

P - Parking

VP - Visitor Parking

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.

Other facilities
- Campus Directory
- Hughes Stadium
- Kungle Softball Fields
- Soccer Field
- Student Residence Halls
- Stults Memorial Garden
- Tennis Courts

Correspondence

Missouri Southern State College • 3950 E. Newman Road • Joplin, Missouri 64801-1595
(417) 625-9300
1-800-606-MSSC
(admission, financial aid, athletics, housing)

Academic Affairs	625-9394
Admissions Office	625-9378
Athletics *(men)*	625-9317
Athletics *(women)*	625-9316
Alumni Affairs	625-9355
Bookstore	625-9380
Business Affairs	625-9728
Cafeteria	625-9546
Career Services	625-9343
Catalog & bulletins	625-9378
Child Development Center	625-9360
Continuing Education	625-9384
Credit evalutions/transcripts	625-9389
Crime Laboratory	625-9382
Dental Hygiene Clinic	625-9379
Evening Session	625-9394
Faculty appointments	625-9394
Financial aid	625-9325
Gifts & Annuities	625-9500
Grammar Hotline	624-0171
Honors Program	625-9686
Housing	625-9522
KGCS/MSTV	625-9375
KXMS-88.7	625-9356
Learning Center	625-9373
Library	625-9386
Loans	625-9325
Missouri Southern Foundation	625-9396
News/Publications/Advertising	625-9399
Orientation	625-9542
Physical Plant	625-9331
Public Information Office	625-9399
Purchasing	625-9388
Residence Halls	
Blaine Hall	659-4107
McCormick Hall	659-4190
Student Life Center	659-4461
Safety & Security	626-2222
School of	
Arts & Sciences	625-9385
Business Administration	625-9319
Education	625-9314
Technology	625-9328
Sports Information	625-9359
Student Activities	625-9320
Student Employment	625-9325
Student Organizations	625-9320
Student Services	625-9392
Summer Session	625-9394
Student Support Center	625-9324
Swimming & Racquetball	625-9390
Testing	625-9324
Ticket Office	625-9366
Veterans Affairs	625-9529

Web Site: http://www.mssc.edu
Additional areas (For academic department numbers, see department information in each school.)

Student Services

Dean of Students
Student Support Center
College Orientation
Student Activities
Career Services
Residence Halls
Intramurals
Student Health Services
Intercollegiate Athletics
Student Policies
Student Life Center
Food Service

Student Services

Dean of Students and Assistant Vice President for Student Services
Doug Carnahan
Billingsly Student Center 211, 625-9531

Staff Carlisle, Dipley, Gipson, Goodnight, Mitchell

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of services for students at Missouri Southern. The department includes the Student Services Office, Dean of Students, Residence Life, Student Activities, Billingsly Student Center, Dianne Mayes Student Life Center, International Student Advising, Food Service, and Student Health Services.

With the objective of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

1. providing a campus climate in student residence and campus affairs that is conducive to academic achievement;

2. providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;

3. providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;

4. helping each student develop a sense of individual responsibility and self-discipline;

5. interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public; and

6. providing student health services that meet the emergency and temporary medical needs of all students.

Student Support Center

Kelly E. Wilson, Director
Hearnes Hall 114, 625-9324

The primary goal of the Student Support Center is to promote the student's academic and personal development. Services are provided for individuals with educational, academic, personal, and social concerns. Experienced professional staff members provide individual counseling for academic, career, and short term personal concerns as well as offer a variety of tests, inventories, and referral services. Such services are considered confidential.

Academic Advisement

Students who have not declared an academic major area of study will be assigned an adviser from the staff in the Student Support Center. At the beginning of each semester, undeclared majors need to make an appointment with their advisor in the Student Support Center to discuss their academic plans. Later in the semester a second appointment needs to be made to enroll for the next semester. The responsibility for satisfying all requirements rests with the student. Advisers, faculty and administration assist in meeting this responsibility.

Career Counseling

Students who are uncertain of their major are encouraged to make an appointment with a career counselor to identify, understand and explore academic/career related concerns. Interest and personality inventories are available as well as a career library to assist in the career decision making process. Career and life planning classes for undecided students are offered during the second half of each semester.

The CHOICES Program, a computer based career information system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations, educational opportunities, and selecting appropriate career development strategies.

Testing Services

Missouri Southern is a national testing center for the following examinations:

1. ACT (Placement test for college entrance)
2. Praxis Series (National Teachers Exam)
3. DHAT (Dental Hygiene Aptitude Test)
4. GED (General Education Development high school equivalency test)
5. MAT (Miller's Analogy Test for graduate school)
6. CLEP (College Level Examinations Program)
7. Michigan Test (English Language Proficiency)

The CLEP *(College Level Examination Program)* is administered by appointment. The student must contact the Student Support Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for core

requirements. In order to receive credit for a CLEP examination, a student must have the following qualifications:

(a) not have taken an examination over the course within the preceding six months;
(b) not have credit in a more advanced course in the same field;
(c) be working toward a degree at Missouri Southern State College;
(d) not use the examination to replace a previousley earned grade.

The Student Support Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have a minimum TOEFL score of 535, or a minimum TOEFL computer score of 200, may take, by appointment, the Michigan Test of English Language Proficiency. A passing grade on the Michigan Test is 75. If proficiency on the Michigan Test is not achieved, the applicant must wait 60 days to retake the test. There is a fee for this test and a passport or green card is required for identification.

The Student Support Center also provides the GED (General Education Development) High School Equivalency Test as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Student Support Center.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return To Learn" course is offered at least once each semester as an orientation course for returning students.

Fresh Start for non-traditional students is a specially designed full-day required enrollment program. It is for first time freshman students who graduated from high school two or more years ago and for those who possess a GED. These students have experiences that are often different from those of recent high school graduates, and profit from enrolling as a group.

Office of Veteran Affairs (OVA)

The Office of Veteran Affairs assists eligible students and dependents in their certification to receive military educational benefits. The veteran student receives assistance in submitting the required VA forms, career and personal counseling, and tutorial services. In order for eligible students to receive VA educational benefits, they must be certified for each enrollment period and the OVA must be notified of any changes in enrollment.

Other Services

Outreach: Special programs and workshops designed to define and/or to prevent problems and to improve the quality of college life are presented. These offerings provide information, techniques, and skills relevant to specific topics of interest such as: stress management, test anxiety, self-esteem, and building successful relationships.

Emergency: Crisis intervention is provided to deal with situations requiring immediate attention.

Consultation and Referral: The Center's staff is available, upon request, to provide consultation to the administration, faculty, staff, and students. The staff also will facilitate referrals to outside agencies and to licensed professionals as needed.

College Orientation

Susan Craig, Coordinator
Hearnes Hall 114, 625-9324

To assist all new students in the transition to college life, Southern has designed an orientation course to help them become acquainted with college services, facilities, and policies as well as to introduce helpful social and academic survival skills.

This eight-week course is offered in the spring and fall semesters. Special orientation courses are designed for transfer, honors, athlete, and non-traditional students. Time management, study skills, social issues, and the assignment of an academic adviser are among the major objectives covered in this course. The program operates in small group settings and is facilitated by peer leaders who have successfully completed a Leadership Training program.

Fresh Start

Fresh Start is a one-day orientation, testing, and enrollment program that is required for all freshmen who have either just graduated from or are one year out of high school. During Fresh Start, students will have an opportunity to:

- take the Writing Placement Exam (determines placement in English Composition)
- learn more about majors and programs offered at Southern
- meet and talk with current and other incoming students
- learn more about campus services and policies (security, parking, health services, activities, residence halls, etc.)
- enroll in fall classes

Family and guests are invited to participate in the Family Program. The Family Program runs concurrently with the student program and is designed to address specific issues related to sending a student to college.

Invitations to Fresh Start are mailed through May and June. To be invited to Fresh Start, a student must be accepted to the College through the Admissions Office.

University 101

University 101 is a class designed for high school seniors and juniors who plan to attend college. The course focuses on how to choose a college, apply for financial aid, adapt to new academic and social rigors, and how to manage time and money. University 101 is offered the first 8 weeks of each spring semester.

Student Activities

Val Carlisle, Coordinator
Billingsly Student Center 102, 625-9320

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Billingsly Student Center

Billingsly Student Center 102, 625-9346

The Billingsly Student Center is centrally located to provide convenient access to student services and facilities. The Student Center Office oversees reservations of the buildings' meeting rooms, lounges, ballrooms, and equipment for departmental, student organizational and off-campus meetings and events held in the Student Center. The Student Center Office also houses the all-campus lost and found, and must be contacted for approval of all forms of advertising on campus bulletin boards. BSC is home to the College Bookstore, the students' source of rental and purchase textbooks, classroom

materials, campus clothing, and gift shop. The BSC Box Office, in room 112, handles ticket sales for both on-campus and off-campus activities and entertainment. The Lion's Den Snack Bar, serving breakfast and lunch, offers a variety of foods and beverages for every appetite. There is a large study lounge, separate TV lounge, vending area, and a games area with four billiards tables, ping pong, and video games.

Student Activities Office

Billingsly Student Center 102, 625-9320

Campus activities are scheduled in the Student Activities Office. The office also oversees the 85 recognized student organizations, publishes the monthly all-campus activities calendar, assists students in organizing or re-instituting student organizations, organizes and supervises Homecoming, and produces and promotes various special events.

Campus Activities Board (CAB)

Billingsly Student Center 100, 625-9669

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the seven CAB committees: concerts and novelty, dances, movies, lectures, special events, tour and travel, and public relations. Interested students may attend the bi-weekly meetings or stop by the CAB office on the lower level of Billingsly Student Center.

Student Senate

Billingsly Student Center 211, 625-9751

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees. Students wishing to speak with a Senate representative may do so via the Student Services Office on the second floor of the Student Center.

Intramurals

Cindy Wolfe, Coordinator
P-114, 625-9533

The Department of Intramurals offers team and individual athletic activities for Southern's students. Some of the sports in their fall and spring schedules include touch football, 3-on-3 basketball, tennis, basketball, softball, golf, and volleyball. Information and sign-ups are available in the Pool-Racquetball Office, or by calling 625-9390.

Office of Career Services

Jennifer Yazell, Director
Billingsly Student Center 207, 625-9343

Career Services assists students and alumni in the development of employability skills necessary to conduct a successful job search and in the location of full-time employment. Seniors and alumni can take advantage of on-campus interviews with representatives from business, industry, government and educational institutions. Students are encouraged to visit the Office of Career Services to take advantage of on-campus interviews, job listings in the vacancy bulletin, Career Development Day, Education Job Fair, career success workshops, mock interviews, career advising, assistance in preparing resumes as well as many periodical and computer resources available in the career library.

Career Services is open Monday and Tuesday nights until 7:30 p.m. to better serve students and alumni.

Residence Halls

Deb Gipson, Coordinator for Student Housing
Student Life Center, 659-4460
Billingsly Student Center 211, 625-9522

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores under the age of 21, are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Coordinator of Student Housing."

The College provides air conditioned residence hall accommodations and meals for approximately 500 full-time stu-

dents. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional resident directors and 18 paraprofessional staff assistants. The programming body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs. Some RHA committees serve as a sliaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and free local telephone service with voice mail and individual access codes are in the residence halls.

To reserve a room in a college residence hall, a prospective student should request an Application Contract for Room and Board Accommodations from the Missouri Southern Residence Life Office. The completed Application Contract should be returned to this office with a $150 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Coordinator of Student Housing, Room 102, Mayes Student Life Center or the Residence Life Office, Room 211, Billingsly Student Center.

Dianne Mayes Student Life Center

Deb Gipson, Coordinator for Student Housing
Student Life Center 102, 625-4460

The Dianne Mayes Student Life Center, opened in the fall of 1996, is a state of the art facility focused on providing avenues for the social, recreational and physical development of Missouri Southern students. Located directly behind McCormick and Blaine Halls in the residence hall complex, the center has extended hours to better serve all students, both commuter and resident, plus faculty and staff.

Facilities include a large television lounge equipped with surround sound, a video game arcade, an aerobics room complete with setup for step aerobic and dance classes, a workout area supplied with a variety of cardiovascular and strength equipment, computer lab, laundry room, as well as table tennis, billiards, air hockey, game tables and a study area. Most areas are available for reservation by MSSC student organizations. The Mayes Student Life Center also serves as the location of a centralized information outlet, as well as a mailroom providing service to all resident students.

In the fall of 1999, the College Cafeteria will open in its new location on the second floor of the Mayes Student Life Center.

For more information regarding the center's hours of operation, programs and policies governing the use of the facility, contact the Student Life Center Office, Room 102, Mayes Student Life Center.

Food Service

Robert Buckley, Director of Food Service
Billingsly Student Center 206, 625-9546

Food service is bid by the College and handled by a professional food service company. The cafeteria operates on funds received from board payments and cash sales of individual meals.

All residence hall students must contract for board. Board contract includes a 20-meals per week program. Individual meals feature salad bar and unlimited servings, including entrees.

Commuter student who are interested in taking some or all of their meals at the college cafeteria may purchase 20-meal tickets in Business Office. Also, separate breakfast, lunch or dinner tickets are available in the Food Service Office at a much reduced price compared to buying meals separately.

The Lion's Den snack bar also serves breakfast and lunch on a cash basis only Monday through Friday.

Student Health Services

Jan Dipley FNPC, Coordinator of Health Services
Kuhn Hall 306, 625-9323

The Student Health Center, is staffed with a full-time Family Nurse Practitioner, a part-time women's health nurse practi-

tioner, and a physician who is available for daily consultation. Appointments to see the nurse practitioner Monday through Friday from 8 a.m. to 4 p.m. can be made by contacting the Student Health Center. All currently enrolled students are eligible for treatment at the Center. Some of the services offered are: first aid and injury care, allergy injections, TB skin testing, flu shots (in season) and screening for certain illnesses. Most services are free; however, students are expected to pay for laboratory, x-ray, work/school physicals, emergency room, hospital services, gynecological, STD, prescriptions and ambulance service. The Health Center maintains files on current students, including medical history and immunization records. Recommendation and referral to community or campus resources are also part of student health services.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

Communicable Diseases

Students must submit have proof of immunization, including two doses of measles/rubella vaccine, to be kept on file in the Student Health Center. When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse practitioner will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

Smoking and Tobacco Use Policy

The Board of Regents of Missouri Southern State College prohibits smoking and tobacco use of any kind. Tobacco products are not permitted in any campus buildings. Smoking and other tobacco usage is permitted only outside of buildings.

Intercollegiate Athletics

Jim Frazier, Men's Director
Leggett and Platt Athletic Center 148-D, 625-9317

Sallie Beard, Women's Director
Young Gymnasium 215, 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Mid-America Intercollegiate Athletics Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

Student Policies

Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Office, Room 211, Billingsly Student Center.

Drug and Alcohol Prevention Program

Pursuant to the Drug-Free Schools and Communities Act Amendments of 1989, Missouri Southern State College is required to establish a drug and alcohol prevention program for its students. The College's program is described below. A biennial review of this program will be done to determine its effectiveness, to implement changes to the program if they are needed and to ensure that the College's disciplinary sanctions are consistently enforced.

Substance Abuse Policy: Students are prohibited from using alcoholic beverages and illegal drugs on College-owned or controlled property and at College-sponsored or supervised activities. Irresponsible alcohol or other drug use off campus resulting in disorderly conduct on campus also is not acceptable. Any student of Missouri Southern State College found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both.

Health Risks: Specific serious health risks are associated with the use of illicit drugs and alcohol. Some of the major risks:

Alcohol and other depressants (barbiturates, sedatives and tranquilizers): addiction, accidents as a result of impaired ability and judgment, overdose when used with other depressants, damage to a developing fetus, heart and liver damage.

Marijuana: addiction, panic reaction; impaired short-term memory; increased risk of lung cancer and emphysema, particularly in cigarette smokers; impairment of driving ability.

Cocaine: addiction, heart attack, seizures, lung damage, severe depression, paranoia, psychosis. Similar risks are associated with other stimulants, such as speed and uppers.

Hallucinogens (acid, LSD, PCP, MDMA, etc): unpredictable behavior, emotional instability, violent behavior, organic brain damage in heavy users, convulsions, coma.

Narcotics (heroin, Demeral, morphine, Codeine, etc.): addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.

Inhalants (gas, aerosols, glue, nitrites, etc.): loss of consciousness, suffocation, damage to brain and central nervous system, sudden death, nausea and vomiting, nosebleeds, impaired judgment.

Methamphetamines: addiction, irritability, sleeplessness, nervousness, sudden weight loss, pungent body odor, protrusion of eyes.

Resources: A variety of resources exist for drug or alcohol counseling, treatment or rehabilitation programs. A few are listed inside the front of the *Student Handbook*. For more detailed information concerning these resources and others available from the College and/or community agencies, students may contact the Student Support Center (417-625-9595) or the Student Services Office (417-625-9392). Such referrals will respect individual confidentiality.

A main objective of the drug and alcohol prevention program is to encourage healthy attitudes and behaviors on the part of all students and responsible decisions about alcohol/drug use. Another objective is to provide students in certain high risk groups (freshman, Greeks, athletes, residence hall students, etc.) with specific and up-to-date information regarding the long-and-short-term effects of alcohol/drug use. A final objective is to provide students with the necessary skills to help them carry out the decisions they have made in regard to their use or nonuse of alcohol/drugs, and how to effectively handle certain "high pressure" situations.

To meet the above objectives, information and assistance is provided to students in several ways. First, alcohol and drug films are shown and programs conducted in all orientation classes, which are required for all new students. Additional alcohol and drug information is presented in other academic classes, including Kine 103, Lifetime Wellness. Pamphlets about alcohol and drug use are distributed each semester in residence hall rooms and in the Student Center. Special alcohol and drug training is provided annually for residence hall staff and orientation leaders.

The athletic department provides a program for varsity athletes. Special alcohol and drug programs are presented throughout the year. Active drug testing is done. A committee of counselors, teachers and clergy are available to assist varsity athletes.

The Student Services Office, Campus Activities Board and the Residence Hall Association provide alcohol and drug programs throughout the year for all students.

Sexual Harassment Policy

Missouri Southern State College is committed to the principles of equal opportunity and does not discriminate on the basis of race, age, sex, religion, national origin or handicap. The U.S. Equal Employment Opportunity Commission has issued guidelines: It is the policy of Missouri Southern State College that

no member of the campus community may sexually harass another individual. Sexual harassment defined as the use of one's authority or power to coerce another into unwanted sexual relations or to punish another for his/her refusal, or the creation by a member of the college community of an intimidating, hostile or offensive working education environment through repetitive verbal or physical conduct of a sexual nature, shall be a violation.

Any student with a sexual harassment complaint may contact the Dean of Students. If, after an informal investigation, the matter is not resolved, the student may resort to the regular grievance procedure.

Campus Security Act Policies and Procedures

1. All campus crimes should be reported immediately to Campus Security. Campus security officers are available on campus 24 hours of every day. The number to call for on-campus personnel is extension 2222. Off-campus personnel should call 626-2222, after hours, weekends and holidays. This will contact the security officer on duty directly via cellular phone. A campus security officer will respond to each call.

2. All academic buildings are locked each evening and during the weekends. One security officer makes nightly rounds, using a computerized security key system. All residence halls, except Blaine Hall are locked at midnight Sunday-Thursday and 2:00 a.m. on Friday and Saturday. Individual keys are issued to each resident student. Another security officer is on duty in the residence hall area from 11:00 p.m. to 7:00 a.m. each day.

3. The Security Department personnel are not commissioned law enforcement officers. However, each officer has completed the coursework necessary to meet the state requirements to be commissioned. There is an excellent working relationship between the department and the city and county law enforcement agencies. All employees and students are directed to report all occurrences of any criminal activity to the Campus Security. Campus Security is directed to report all felonies to the Joplin Police Department.

4. These policies and procedures are published in the *Student Handbook* which is distributed to all freshmen students. Each semester during freshman orientation, seminars are given covering date rape, safety tips and security procedures.

5. Crime prevention programs are presented each semester by the Campus Activities Board, Student Services and Residence Hall Association. Pamphlets regarding crime prevention are distributed to all resident students and are made available to all students in the Student Center.

6. MSSC does not have off-campus student organizations recognized by the institution.

7. Crime statistics are available in the Campus Security Office.

Student Identification Cards

The student identification card is produced by the College and issued to all students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. costs $2.00; replacement cost for lost cards is $5.00. Student I.D. cards may be obtained at the Campus Security Office.

Academic Affairs

Academic Affairs

Vice President for Academic Affairs

Erik J. Bitterbaum
Hearnes Hall 200, 625-9394

Staff: J. Larry Martin, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business Administration; Michael J. Horvath, Dean, School of Education; Jack G. Spurlin, Dean, School of Technology; Nadine P. Schmidt, Assistant to the Vice President/Grants Writer; Charles H. Kemp, Head Librarian; Dianne Bales, Registrar; Delores A. Honey, Director of Center for Assessment and Institutional Research; Eillen A. Godsey, Director of the Learning Center; Elaine Freeman, Director of Special Programs; Patricia P. Kluthe, Director of Honors Program; Karl J. Schmidt, Assistant Director of Honors Program; Derek S. Skaggs, Director of Enrollment Services; Kelly Wilson, Director of Student Support Center; Jennifer Yazell, Director of Career Services

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional programs both on and off campus. The Learning Center, the Honors Program, the Writing Program, the Assessment and Institutional Research Office, the Library, the Grants Office, Registrar's Office, Admissions Office, Student Support Center, Career Services and all academic units are under its direction.

Academic Standards

Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the standards of progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension. Students receiving financial aid must meet the good standing criteria described below.

Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

Academic Bankruptcy

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The college reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree

Hours Attempted	*Grade Point Average*
1-22 semester hours	1.6
23-33 semester hours	1.7
34-44 semester hours	1.8
45-55 semester hours	1.9
56 & Above	2.0

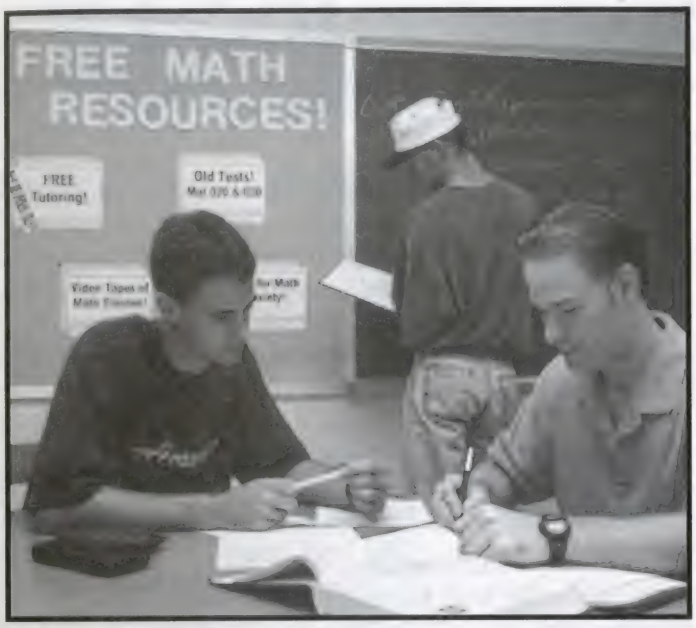
B. For Baccalaureate Degree

Hours Attempted	*Grade Point Average*
1-22 semester hours	1.5
23-44 semester hours	1.6
45-66 semester hours	1.7
67-88 semester hours	1.8
89-110 semester hours	1.9
111 & Above	2.0

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning. Those falling below the standards of



progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension may not enroll at Missouri Southern for one semester. Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

Students may repeat courses in which grades "F, D, C, or B" have been earned. When a course is repeated, the first grade will not be removed from the record, but the latest grade will be used when computing grade point averages.

298-398-498 Classes

Classes numbered 298, 398 or 498 may not be counted toward Core Curriculum credit.

Honor Roll

An Honors or Deans' List, issued at the end of each semester, contains the names of full-time undergraduate students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."

Graduation Honors

In recognition of superior scholarships, the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the student's permanent record.

Associate Degree — The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

Baccalaureate Degree - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3.70-3.79

Course Numbers and Levels

Course Numbers:

0- 99	Applicable toward the associate degree only
100-199	Primarily for freshmen
200-299	Primarily for sophomores
300-399	Primarily for juniors
400-499	Primarily for seniors

Normally, courses numbered 100-299 are considered lower division level courses and those numbering 300-499 are upper division level courses. There are more significant distinctions between the lower and upper division courses than within the levels of the lower and upper division courses.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment or other factors dictate.

Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend half-time or full-time.

Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients

Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.

Catalog Time Limit

A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidate's first registration at MSSC provided it is not more than six years prior to the date the degree is to be conferred. The candidate must have been in residence at MSSC during the year of the catalog selected.

Transfer Student: The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The catalog used may not be dated more than six years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

The Center for Assessment and Institutional Research

Delores A. Honey, Director
Matthews Hall 321, 625-9696

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major are assessed each year. Federal, state and local reports of institutional data are prepared and archived in this Center.

Degree Requirements

Placement, Examinations, Credits

Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular classes, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

(a) be enrolled in college at the time of the examination;
(b) not have taken an examination over the course within the preceding six months;
(c) not have credit in a more advanced course in the same field;
(d) be working toward a degree at Missouri Southern State College;
(e) have the approval of the head of the department in which the course is offered;
(f) not use examination to replace a previously earned grade.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade or above, the Registrar will record the credit.

International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admission Office for a detailed analysis of credits and standing.

Advanced Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.

Correspondence Course Credit

Missouri Southern does not offer courses by correspondence; however, it does accept credit earned in this manner from regionally accredited institutions. No student will be permitted to apply course work in correspondence toward his or her degree after a total of 12 hours has been completed in correspondence courses.

Course Credit for Military Service and Schooling

Military Service students who have completed a minimum of one year of active military service may be granted credit to meet the Kine 101 and Kine 103 requirements of the Core Curriculum. Thus, these requirements will be satisfied if the DD214 form is submitted to the Missouri Southern Registrar's Office. Credit may also be granted for specific military schooling as recommended by the American Council of Education. The credit granted will be comparable to courses listed in the bulletin and will carry the grade of "Cr". The veteran must present documentation designating the military course, date and site of the course.

Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must: (a) be enrolled at Missouri Southern State College at the time the examination is taken; (b) present the necessary evidence to prove that the course was taken; (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered; and (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

The Honors Program

Entering students will be governed by admission policies clarified on page 37 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 26 honors hours required to complete the program, that student will be considered by the Honors Committee on an individual basis.

Graduation

A. **Graduation Requirements:** The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.

B. **Time of Graduation:** A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the fall and spring semesters.

C. **Placement Services:** Each degree candidate must register in the Office of Career Services.

D. **Degree Candidacy Application:** Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application process is initiated at the Office of Career Services.

E. **Senior Assessment:** All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.

Baccalaureate Degree Requirements

A. **Residence:** The following minimum requirements must be met in residence at Missouri Southern: (1) 30 of the last 36 hours counted toward the degree; (2) one-half of the courses both required for the major and in the major department. Courses required for the major but not offered in the major department are not included; (3) one-half of the upper division courses both required for the major and in the major department.

B. **Credit Hours:** At least **124* semester hours** of college credit applicable to a baccalaureate degree are required for graduation. *(128 hrs. prior to the year 2003)*

*Effective for the Class graduating 2003.

C. **Grade Point Average (GPA):** The following minimum GPAs are required for all baccalaureate degrees except the B.S.E.:

1. a 2.0 GPA for all credit hours attempted;
2. a 2.0 GPA for all the courses required for the major, both inside and outside the major department;
3. a 2.0 GPA for all courses, both required and elective, taken in the major department.

The following minimum GPA's are required for the B.S.E.:

1. a 2.75 GPA for all credit hours attempted;
2. a 2.50 GPA for all the courses required for the major, both inside and outside the major department;
3. a 2.50 GPA for all courses, both required and elective, taken in the major department;
4. a grade of "C" or better in professional education courses and courses required for elementary education, special education and early childhood.

D. **Upper Division Hours:** A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be completed to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.

E. **Writing Intensive:** Five writing intensive courses will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480 WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:

Total hours at time of transfer to Missouri Southern:	*Minimum Writing Intensive courses required:*
Fewer than 30 hours	Five courses as outlined above
30 to 89 hours	Four courses, with at least two at the junior/senior level, one of which must be in the major
90 hours or more	Three courses, one must be in the major and at the junior/senior level

F. **Foreign Language:** All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.

G. **Special Education:** All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.

H. **Computer Literacy:** All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.

I. **Assessment:** All degree candidates are required to participate in College assessment of outcomes activities.

J. **Core Curriculum Requirements:** Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

Baccalaureate Degree Core Requirements

			Credit Hours Required
Area 1. Basic Requirements*			
A.	*English Compositions*		**6**
	Freshman Year (Eng 101 and 102 OR achievement in the required competency level can be done in Eng 111 in 3 hours)		
B.	*Communication*		**3**
	Comm 100 Oral Communication		
C.	*Mathematics (110, 112, 130 or above)***		**3**
D.	*Physical Education***		**3**
	Kine 103 Lifetime Wellness**	(2)	
	Kine 101 Physical Activity	(1)	
	Total for Area 1	**15**	**Hours**
Area 2. Humanities and Fine Arts			
A.	*Select One*		**3**
	Art 110 Art Appreciation	(3)	
	Mus 110 Music Appreciation	(3)	
	Th 110 Theatre Appreciation	(3)	
B.	*Select One*		**3**
	Eng 261, 262 World Masterpieces	(3)	
	Eng 271, 272 English Literature	(3)	
	Eng 281, 282 American Literature	(3)	
C.	*Select One*		**3**
	Eng 150 Introduction to Literature	(3)	
	Eng 305 Short Story	(3)	
	Eng 261, 262 World Masterpieces	(3)	
	Eng 271, 272 English Literature	(3)	
	Eng 281, 282 American Literature	(3)	
	Phil 201 Introduction to Philosophy	(3)	
	Phil 212 Ethics	(3)	
	Art 110 Art Appreciation	(3)	
	Mus 110 Music Appreciation	(3)	
	Th 110 Theatre Appreciation	(3)	
	Total for Area 2		**9 Hours**
Area 3. Natural Science and Behavioral Sciences*			
A.	*Bio 101 General Biology***		**4**
B.	*Phy 100 Fundamentals of Physical Science***		**5**
C.	*Select one*		**3**
	Psy 100 General Psychology**	(3)	
	Soc 110 Sociology	(3)	
	Total for Area 3		**12 Hours**
Area 4. American Cultural Studies*			
A.	*Hist 110 U.S. History 1492-1877*		**3**
	AND		
	Hist 120 U.S. History 1877-Present		
	OR		
	Hist 320 U.S. History 1877-Present		**3**
	PSc 120 Gov't: U.S., State, Local		**3**
	Econ 180 American Economic System		**3**
	(Majors and minors in business should take Econ 201)		
	Total for Area 4		**12 Hours**
Area 5. International Cultural Studies*			
A.	*Select One*		**3**
	Foreign Language	(3)	
	Hist 130 or 140 Western Civ	(3)	
	Geog 211 Regions and Nations	(3)	
	Anth 155 Physical Anthropology and Archeology	(3)	
	IB 310 International Business	(3)	
	Anth 342 Comparative Cultures	(3)	
	Comm 305 Intercultural Communication	(3)	
	Soc 303 The Arab World	(3)	
	CJAd 301 International Justice Systems	(3)	
	Phil 320 Comparative Religion	(3)	
	Eng 385 Continental Novel	(3)	
	Geog 310 Human and Cultural Geography	(3)	
	IntS 201 Introduction to International Studies	(3)	
	Total for Area 5		**3 Hours**
Total Core Curriculum Requirements			**51 Hours**

*Occasionally, selected courses may be substituted for this area.
**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate Degree Core Requirements

Associate of Arts Degree

A. **Credit Hours**: A minimum of 64 semester hours must be completed.

B. **Residence**: The last 15 semester hours must be completed in residence at Missouri Southern.

C. **Grade Point Average**: Minimum cumulative and major field grade point average must be 2.0.

D. **Major Field**: The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.

E. **Core Curriculum Requirements**: The degree requires completion of the following Core Curriculum requirements:

			Credit Hours Required
Area 1. Basic Requirements*			
A.	*English Compositions*		**6**
	Freshman year (Eng 101 and Eng 102 OR achievement in the required competency level can be done in Eng 111 in 3 hours)		
B.	*Comm 100 Oral Communication***		**3**
C.	*Mathematics (110, 112, 130 or above)***		**3**
D.	*Physical Education*		**3**
	Kine 103 Lifetime Wellness**	(2)	
	Kine 101 Physical Activity**	(1)	
	Total for Area 1		**15 Hours**

Area 2. Humanities and Fine Arts*

A.	*Select One*		3
	Art 110	Art Appreciation (3)	
	Mus 110	Music Appreciation (3)	
	Th 110	Theatre Appreciation (3)	
B.	*Select One*		3
	Eng 261, 262	World Masterpieces (3)	
	Eng 271, 272	English Literature (3)	
	Eng 281, 282	American Literature (3)	
C.	*Select One*		3
	Eng 150	Introduction to Literature (3)	
	Eng 305	Short Story (3)	
	Eng 261, 262	World Masterpieces (3)	
	Eng 271, 272	English Literature (3)	
	Eng 281, 282	American Literature (3)	
	Phil 201	Introduction to Philosophy (3)	
	Phil 212	Ethics (3)	
	Art 110	Art Appreciation (3)	
	Mus 110	Music Appreciation (3)	
	Th 110	Theatre Appreciation (3)	
	Foreign Language	(3)	
		Total for Area 2	**9 Hours**

Area 3. Natural Sciences*

A.	*Bio 101*	*General Biology***	4
	AND		
	Phys 100	*Fundamentals of Physical Science***	5
		Total for Area 3	**9 Hours**

Area 4. Social and Behavioral Sciences*

A.	*Psc 120*	*Gov't: U.S., State, Local*	3
B.	*Hist 110*	*U.S. History 1492-1877*	3
	OR		
	Hist 120	*U.S. History 1877-Present* (3)	
C.	*Select One*		3
	Hist 130 or 140	Western Civ (3)	
	Geog 221	Regions and Nations (3)	
	Anth 155	Physical Anthropology and Archeology (3)	
	Soc 110	Sociology (3)	
	Psy 100	General Psychology (3)	
	Econ 180	American Economic System** (3)	
		Total for Area 4	**9 Hours**
Total Core Curriculum Hours			**42 Hours**

*Occasionally, selected courses may be substituted for this area.
**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate of Science Degree

A. **Credit Hours:** A minimum of 64 hours must be completed.
B. **Residence:** The last 15 semester hours must be completed in residence at Missouri Southern.
C. **Grade Point Average:** The minimum cumulative and major field grade point average must be 2.0.
D. **Major Field:** The student must meet the course requirements in the particular program of study as approved by an adviser.
E. **Core Curriculum Requirements:** The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

			Credit Hours Required
Area 1. Basic Requirements*			
A.	*Eng 101*	*English Composition*	3
B.	*Comm 100*	*Oral Communication***	3
C.	*Math 30*	*(or above)***	3
D.	*Physical Education***		3
	Kine 103	Lifetime Wellness** (2)	
	Kine 101	Physical Activity** (1)	
		Total for Area 1	**12 Hours**
Area 2. Humanities and Fine Arts*			
A.	*Select One*		3
	Art 110	Art Appreciation (3)	
	Mus 110	Music Appreciation (3)	
	Th 110	Theatre Appreciation (3)	
	Any Literature Course except 325	(3)	
	Phil 201	Introduction to Philosophy (3)	
	Phil 212	Ethics (3)	
		Total for Area 2	**3 Hours**
Area 3. Natural Science*			
A.	*Bio 101*	*General Biology***	4
B.	*Phys 100*	*Fundamentals of Physical Science***	5
		Total for Area 3	**4-5 Hours**
Area 4. Social and Behavioral Sciences*			
A.	*Hist 110 or Hist 120 United States History*		3
B.	****Missouri Constitution Requirement*		
C.	*Select One:*		3
	Psy 100	General Psychology (3)	
	Soc 110	Introduction to Sociology (3)	
	Econ 180	American Economic System** (3)	
		Total for Area 4	**6 Hours**
Total Core Curriculum Requirements			**25-26 Hours**

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

***This requirement may be satisfied with credit from a Missouri public college, or PSc 120 Government: U.S., State & Local or by an examination. Examination information is available from the Dean of Arts and Sciences.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.

A Bachelor of General Studies (B.G.S.) Degree
The B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

Academic Minor
Selected departments have developed an academic minor that in conjunction with the major strengthens the student's vocational preparation. A minor requires at least 18 semester hours of prescribed courses. At least six semester hours must be upper division and at least nine semester hours must be in residence. The overall GPA requirement is 2.0.

Special Requirements

Physical Education Requirements
All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete Kine 101, Physical Activity and Kine 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows:
   (1) students transferring less than 15 semester hours will not be exempt from any of the requirements;
   (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.
B. Upon presentation of proper documentation to the Registrar, a veteran may petition for credit in physical education.

State Legislation Requirement
Section 170.011 of the Revised Statutes of Missouri, 1989, prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have "satisfactorily passed an examination of the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, and in American Institutions."

Students may comply with the law
(1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work; or
(2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum requirements meet the requirements of Missouri law. Out-of-state students who do not complete their core curriculum at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

Commencement Requirements
Degrees are conferred only at scheduled commencement exercises. Students who graduate in the fall term are to participate in the December Commencement exercises. Students who graduate in the spring or the following summer term are to participate in the Spring Commencement exercises. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

Enrollment Services

Admissions
Derek Skaggs, Director of Enrollment Services
Hearnes Hall 109, 782-6772

Staff: Kristy Adams, Mary Adamson, Clay Deem, Lola May

Admission decisions are based on current admission policies established by the Board of Regents and are made in accordance with the recommendations of the Coordinating Board for Higher Education. Students are encouraged to apply for admission early. Applications are available through the Admission Office and most high schools and community colleges. Admission requirements are subject to change without notice. Missouri Southern State College encourages students from private, home schooling and non-accredited high schools to contact the Admission Office for details on how to be accepted into Missouri Southern.

Credentials Required for Freshman Admission

Regular Admission

(1) **High School Transcript:** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)

(2) **Placement Test:** Missouri Southern participates in the American College Testing Program (ACT). Scores from the enhanced battery must be presented as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center. Students over the age of 21 applying as first time freshman are not required to submit an ACT score. However, placement tests in English and Math may be required for placement in the appropriate classes.

(3) **Application:** The application for admission must be completed one week before the first day of enrollment (see College calendar on page 14). This includes all credentials required by the Admission Office.

(4) **Application Fee:** A fee of $15 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)

(5) **Miscellaneous Requirements:** Additional credentials maybe required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body is in question. Students who do not attend Missouri Southern within one year after making application must submit new credentials when seeking admission.

Core Curriculum Requirement

The College strongly encourages high school students to follow the core curriculum requirements outlined by the Missouri Coordinating Board for Higher Education. The core includes:

English, 4 units. Two units emphasizing composition or writing skills are required. One unit may be speech or debate.

Mathematics, 3 units. The units must include Algebra I, Algebra II and Geometry. A fourth higher level mathematics course is strongly recommended.

Social Studies, 3 units. Courses should include United States history and courses selected from world history, government, geography and economics.

Science, 2 units. General Science does not count. One unit must include a laboratory. Biology, physics and chemistry are strongly recommended.

Visual/Performing Arts, 1 unit. Fine Arts courses include such areas as visual arts, music, dance or theatre.

Electives, 3 units. These may be selected from world geography, higher level mathematics, additional science, foreign languages (if a language is chosen as an elective, the college recommends 2 units of the same language), advanced placement courses or a combination of the core courses listed above.

Admission requirements are subject to change without notice.

Admission Review Committee
Individuals who do not meet the College's admission criteria may request a review of their application. The committee may make one of four decisions: grant regular admission, admit conditionally, deny admission or admit as a special non-degree seeking student.

Students With Previous College Experience

Former MSSC Students: Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admission of their intention to return. Students will be required to update their credentials.

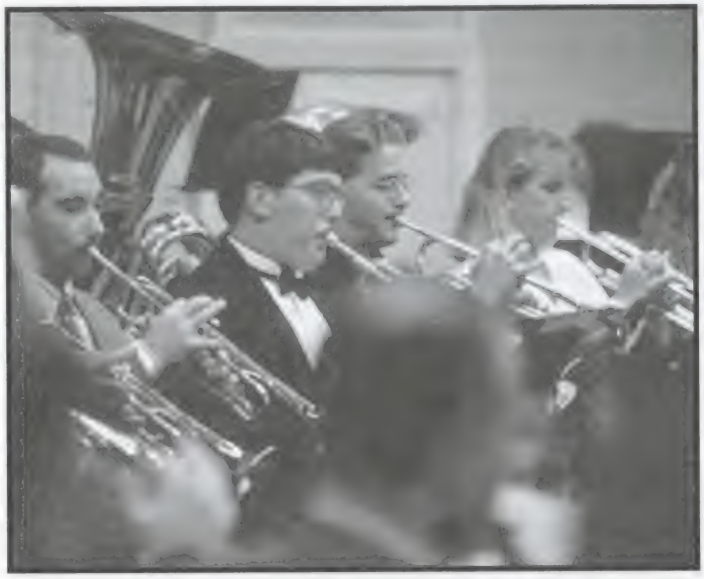
Transfer Students: *(Students who are enrolling at MSSC for the first time)* Credits will be accepted from a two-year college to meet lower division (freshmen and sophomores, 100-200-level course) requirements. A total of 64 semester hours of credit earned at a two-year college is the maximum that may be applied toward a baccalaureate degree. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

The following credentials must be submitted to the Admissions Office:

1. an official transcript from all previously attended institutions sent directly to the Admissions Office;
2. be eligible to return to last institution attended;
3. pay $15 non-refundable application fee; and
4. submit ACT scores if English or mathematics have not been completed or are seeking a degree in education.

Transfer students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students seeking admission to Missouri Southern State College from colleges or universities not accredited by a regional association may be given full recognition for their credits earned when the credit is appropriate to the student's degree programs and after Missouri Southern State College has



validated the courses. Applicants must meet the following conditions:

1. the student must be in good standing at the institution from which they are transferring, and
2. the student must have a cumulative grade-point average of 2.00 or higher (on a 4.00 scale) for all work attempted.

Any transfer student falling below a 2.0 GPA but above the College's standards of progress may be considered for admission on probation.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

Transient Students: Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the $15 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university. Students wishing to continue course work at Missouri Southern State College must complete the admission application and meet admission criteria.

International Students: International students not citizens of the United States who wish to apply for admission should write the Admissions Office for the proper application forms and instructions. In addition to the admission credentials required of all students on page 38, international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study, and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking

nations must score in the 75th percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL paper-based test or a minimum of 200 on the TOEFL computer-based test. Deadlines for completed application for admission are:

Freshman	Transfer
Fall Semester–July 1	Fall Semester–July 10
Spring Semester–November 1	Spring Semester–January 2
Summer Semester–April 1	Summer Semester–May 25

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 on the TOEFL paper-based test or a minimum of 200 on the TOEFL computer-based test or a score in the 75th percentile on the Michigan Test is required of these students.

Dual Credit: The Dual Credit Program enables high school students to enroll in college courses and simultaneously earn both high school and college credit for those courses (subject to the agreement of the high school). Missouri Southern is pleased to participate in this program. Admission to the dual credit program is limited to high school students who have completed their sophomore year, who have a cumulative high school grade point average of at least 3.0 on a scale of 4.0, who are pursuing the state-designated college preparatory high school core curriculum, and who have the recommendation of their principal or counselor. Students should obtain a dual credit application and information about available courses from the Assistant to the Vice President for Academic Affairs, Hearnes Hall Room 200, 417-625-9555.

Credit-in-Escrow: The credit-in-escrow program consists of college studies for outstanding high school students who have completed their sophomore year, who have a cumulative grade point average of 3.0 on a 4.0 scale, who are pursuing the state-designated college preparatory high school curriculum, and who have the recommendation of their principal or counselor. A high school transcript is required with the application.

Admission to Selective Programs

The Health Sciences (nursing, dental hygiene and radiologic technology): Admission to Missouri Southern does not automatically confer admission to the programs of nursing, dental hygiene, radiologic technology. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admission Committee of the respective department. See nursing department page 197, dental hygiene department page 192 or radiologic technology page 201 under affiliated programs for full information on admission and acceptance criteria.

Honors Program: This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should write the Director of Honors Program for an application form or check the appropriate box on the application for admission to the college. (Page 51)

Special Admission

A students who wishes to enroll in college but does not meet regular admission requirements may be permitted to enroll in classes as a non-degree seeking student. College hours completed in this status cannot be counted toward a degree until the student meets regular college admission criteria. Special admission classification is not eligible for financial aid.

Students who possess a high school diploma or GED may request reclassification by:

1. meeting all of the College's admission criteria, or
2. successfully completing 21 hours with a 2.0 GPA.

Individuals without a diploma or GED must complete 59 hours with a 2.0 GPA before a request for reclassification can be considered.

Continuing Education

Televised and Distance Learning Courses

Regular college curriculum courses are offered by the Division of Continuing Education through a variety of means including in-home cable, extension sites, Internet, and video tape. Students initially enrolling in these courses are categorized as either *special or temporary* unless they have completed the regular student admission process.

Continuing Education Credit Hour Courses

A variety of courses in this listing are offered both on and off-campus that meet the qualifications for receiving college credit dependent upon the student's major and school. Courses within this category are generally designed for serving the needs of community betterment and professional development. Students enrolling in these courses will need to check with their school Dean and adviser to receive permission to petition the course for academic credit. Students will be considered as either *special* or *temporary* unless they have completed the regular student admission process.

Non Credit Courses

The College offers a number of courses designed primarily for the individual's personal enrichment or job training that do not carry academic credit. Students enrolling in non-credit courses are not given a student status through the Admission Office.

Return to Learn: Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

60 Plus: This program is designed to serve interested individuals 60 years of age and over. Community residents may enroll in a course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the student's responsibility. Enrollment takes place at the same time as regular student enrollment. Information concerning enrollment times, reduced fees and tuition costs can be found in the college schedule. A student may elect to receive a grade and credit for their course or they may audit the course with the permission of the instructor. If a student desires to become a regular student, he or she must make application to Missouri Southern for future semesters.

Financial Aid

Mr. James Gilbert, Director of Student Financial Aid
Hearnes Hall 117, 625-9325

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds – from private, institutional, state and federal sources – are coordinated to meet the individual

What types of Aid Programs does Southern offer?

Grants	Who Is Eligible	How Much	How to Apply
Federal Pell Grant	Federal Aid program based on financial need. **All students should apply.**	Grants range from $200 to $3700 depending on where the student lives and educational costs.	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Charles Gallagher Student Financial Assistance Program	State funded program for Missouri residents; based on financial need.	Maximum grant not to exceed one-half the cost of tuition and fees.	Complete the FAFSA. Deadline April 30.
Federal Supplemental Educational Opportunity Grants	Students with exceptional financial need.	Grants range from $100 to $4000 per academic year.	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Bridge Scholarship	First 2 years of post secondary; Financial need, not receiving combination of Pell grant, Hope Tax credit and Gallagher Grant not to exceed $1500.	Difference between Pell grant, Hope Tax Credit, Gallagher Grant and $1500.	Complete the FAFSA. Deadline April 30.

What type of Academic Scholarships are available and how do I apply for them?

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program Evans Scholarships are awarded to selected first time freshman.	ACT composite score of 28, or a 3.5 GPA. Additional Evans Scholarship available for on-campus room and board with an ACT Composite score of at least 31 and to National Merit semifinalists or finalists.	Evans Scholarship-a four-year renewable scholarship covering tuition, textbook rental fees, and student activity fees for fall, spring, and summer semesters.	MSSC, Honors Program, 3950 E. Newman Road, Joplin, MO 64801-1595. Deadline for the completed application is March 1.
Presidents Scholarship- *Must complete 12 hours each semester. Renewable up to eight semesters if the student earns a 2.5 g.p.a. the first semester and a 3.0 g.p.a. for each semester thereafter.*	Awarded to the 1st & 2nd ranking students, with a composite score of 21 or higher on the ACT placement test.	$1200 for academic year 1999-2000. Approximate value over four years - $4800 based on 1999-00 in-state awards. Will not cover any deposit, rental or student activity fee.	President's Scholarships are given directly to each accredited high school in the college's service area and are awarded by the counselors in each school.
Regents' Scholarship- *Must complete 12 hours each semester. Renewable up to eight semesters if the student earns 2.5 g.p.a. the first semester and a 3.0 g.p.a. each semester thereafter.*	High school graduates with a 26 or above composite score on the ACT Placement Test.	$800 for academic year 1999-2000. Approximate value over four years - $3200 based on 1999-00 in-state awards. Will not cover any deposit, rental or student activity fee.	Awarded directly to the student by Missouri Southern on the basis of the ACT score. Student must complete the certification section and forward the acceptance letter to the Financial Aid Office.
Deans' Scholarship- *Must complete 12 hours each semester. Renewable up to eight semesters if the student earns a 2.5 g.p.a. the first semester and a 3.0 g.p.a. each semester thereafter.*	Rank in the upper 30% of their class, composite ACT score of 23 or above.	$610 for academic year 1999-2000. Approximate value over four years - $2440 based on 1999-00 in state awards. Will not cover any deposit, rental or student activity fees.	High School Counselor's Office.
Junior College Transfer Scholarship *Must complete 12 hours each semester. Renewable if the student earns a 2.5 g.p.a. the first semester and a 3.0 g.p.a. each semester thereafter.*	Students who have completed 55 hours or more from a Junior College with a 3.25 g.p.a.	$800 for academic year 1999-2000. Approximate value over two years - $1600 based on 1999-00 in-state awards. Will not cover any deposit, rental or student activity fee.	Financial Aid Office.
Junior College Transfer Non-Resident Service Area Scholarship *Renewable up to 4 semesters if the student earns a 2.5 g.p.a. the first semester and a 3.0 g.p.a. each semester therafter.*	Students who have completed 55 credit hours or more from a Junior College in the College service area and who have a g.pa.a of a least 3.25 g.p.a. (Service area is certain counties in Ark. Kan. & Okla.	The non-resident portion of the tuition- not to exceed 15 credit hrs. per semester. $2,265 for 1999-2000 based on 15 hrs. per semester. Approximate value over 2 years -- $4,530.	Missouri Southern Scholarship Office
Non-Resident Service Area Scholarship for Entering Freshman *Renewable up to 8 semesters if the student earns a 2.5 g.p.a. the first semester and a 3.0 g.p.a. each semester therafter.*	Students who have graduate from the outside of Missouri but within the service area* and who have an ACT composite score of 21 or above. Student must be enrolled in at least 12 hrs. (Service area is certain counties in Ark. Kan. & Okla.	The non-resident portion of the tuition- not to exceed 15 credit hrs. per semester. $2,265 for 1999-2000 based on 15 hrs. per semester. Approximate value over 4 years -- $9,060.	Have your ACT scores sent to MSSC and contact the scholarship office to confirm your ACT scores are on file.
Patron's Scholarship *All scholarships are subject to donor's criteria.*	Open to any student attending Missouri Southern who shows scholastic ability or financial need. Application for Federal aid is not required for the Patron's Scholarship.	$50-$2500 per academic year.	Financial Aid Office. Suggested deadline for applying is March 1.

Performing Awards	Who is Eligible	How Much	How to Apply
	Students who have demonstrated success or high potential in foreign language, forensics, journalism, music, mathematics, theatre, and athletics.	Awards range from $50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity

Employment Programs	Who is Eligible	How Much	How to Apply
Federal Work Study Program	Federal Aid program based on financial need. **All students should apply.**	Minimum wage, weekly hours based on need.	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Student Help Program	On-campus employment for students who are qualified to fill job openings.	Minimum wage, weekly hours depend on operational need.	Apply to Student Employment Office or to individual departments on campus.
Job Location & Development	All students unless other aid criteria conflicts.	Minimum wage and up.	Fill out MSSC Employment Application, make an appointment.

Loans	Who Is Eligible	How Much	How To Apply
Federal Perkins Loan	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	Need to $3000 per year, Aggregate total $15,000	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Federal Direct Stafford Loans - subsidized	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	1 year up to $2625; 2 years up to $3500 3 years up to $5500; 4 years up to $5500 Aggregate total $23,000	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Federal Direct Stafford Loans - unsubsidized	Same as subsidized Federal Stafford Loans.	Cost of education minus other aid equals eligibility for independent students. Dependent students are restricted to the above amounts.	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Federal Direct PLUS (Parents Loan)	Parent of regular student must apply for Federal Aid Programs.	Cost of education minus other aid equals eligibility.	Complete the FAFSA; MSSC prefers the electronic application on the Internet; priority date Feb. 15.
Advantage Missouri	High demand occupational fields.	Up to $2500 per academic year.	Contact the Missouri Coordinating Board of Higher Education.
Alternative Loans	All Students.	Not to exceed cost of attendance.	Contact Financial Aid Office after completing FAFSA.

Other Assistance	Who Is Eligible	How Much	How To Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from $25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded.	Applications available in the Business Office
Veterans' Administration Benefits	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors.	Amount varies depending on chapter and enrollment status.	Contact: Veterans' Administration Officer, Veterans' representative on campus or Veterans' Administration Regional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood.	Awards range from partial tuition to full tuition and fees.	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
Vocational Rehabilitation	Students with disabilities.	Awards range from $25 to full tuition, fees, room and board.	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801
Educational IRA	Account setup prior to student's 18th birthday.	$500 per year	See your local tax accountant.
MOSTAR Higher Education Saving Program	All students.	Up to $8000 annually	See your local tax accountant.
Lifetime Learning Credit	1/2 time student.	$1000 per year and $2000 per year in 2003	See your local tax accountant or claim as proper tax credit.
Hope Scholarship	First two years of college, at least half-time; file taxes.	$1500 per year	See your local tax accountant or claim as proper tax credit.
Local clubs, service organizations & foundations	All Students.	Amount varies with organization.	Contact: Your local clubs, service organization & foundation.
Employment Benefit Programs	Students, spouses and dependents.	Amount varies	Contact: your parents or your place of employment.

General Scholarship Policies

Eligibility criteria will be reviewed in August and January prior to disbursing funds. Recipients may not receive more than one scholarship issued by the college. This includes Evans/Honors, President's, Regents', Junior College Transfer, Deans', Patron's, Non-Resident Freshman Scholarship, Non-Resident Transfer Scholarship and other scholarship programs. Outstanding students who receive more than one scholarship must choose which award they will accept. However, scholarship recipients may combine performing awards with the scholarship as long as the total award does not exceed the student's direct college costs.

Recipients of President's, Regents', and Deans' Scholarships must use the scholarship within one year after high school graduation or testing and may not have attended any post secondary program after graduation or testing prior to entering MSSC. Patron's scholarships are not automatically renewable. Application must be filed each year prior to March 1. Scholarships are fee waivers. No cash may be received unless coordinated with a non-college cash award.

Appeals, special circumstances, and questions pertaining to the awarding guidelines should be made to the Director of Student Financial Aid.

All fees, tuition, awards, and scholarships are subject to change without notice and are subject to review by the Scholarship Committee upon receipt of funds and authorization by the Board of Regents. Missouri Southern does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or provision of services.

student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

For applications and detailed information concerning financial aid view our website at http://www.mssc.edu/finaid. There is a wealth of financial aid available in many forms from many sources.

How to Apply for Financial Aid

1. All applicants must complete the Free Federal application for student aid. MSSC prefers the electronic application on the Web at http://www.fafsa.ed.gov. Application priority date is February 15; however, awards will be made until all funds are expended. This application will generate a Pell Grant, if applicant is eligible and will be used to apply for work, loans, Missouri Charles Gallagher Student Financial Assistance Program, and the Bridge Scholarship Program.

   Students who have not submitted all necessary financial aid documentation by August 1 for the Fall term and January 1 for the Spring term will be expected to pay their fees in full by the deadlines set out in this catalog. Payment deferments will only be available to those students who meet with the application deadlines and have provided all required documentation for eligibility determination.

2. Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.

3. Applicants must indicate on their application the type of assistance for which they wish to apply. In addition, applicants for PLUS loans must contact the Financial Aid Office for special instructions.

4. Applicants for Patron Scholarships must complete a scholarship application and return it to the Scholarship Office by March 1.

5. Transfer students must request a financial aid transcript for each college previously attended.

6. Applicant for performing awards should contact the director of the program in which they wish to participate.

7. Applicants for special programs should contact the Financial Aid Office for instructions.

Policies and Regulations

Academic Standards: The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 30, Standards of Progress Toward Graduation). After the second year, federal regulations require the student to have a cumulative 'C' average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

Maximum Semesters of Aid Eligibility

Degree	Full-Time	3/4-Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per year
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.

All aid will terminate immediately under the following situations:

1. withdrawal from all classes;
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee;
3. default on any federally funded student loan or over payment of any Title IV funds; or
4. all 'F' grades in a semester.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school,
2. a significant change in income,
3. added or dropped classes during the semester,
4. a name change,
5. change of address or change of parents' address,
6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and applications which are capable of processing data by teletransmission. The electronic system requires student signatures on documentation, award letters, and promissory notes before funds can be processed.

Financial aid funds will be credited to the student account. Once all direct college costs have been satisfied, funds awarded may go directly to the student will be mailed by check to the address provided at the time of registration. Checks are printed at the end of the second week and thereafter every week throughout the semester. Student employment and other checks must be picked up in person at the Business Office upon notification of their availability.

Veterans must sign up for veterans' benefits at the beginning of each semester.

General Regulations

Classification of Students

A. By Class

Freshman: 0-29 Hours
Sophomore: 30-59 Hours
Junior: 60-89 Hours
Senior: 90 and above
Special Admission: See page 40.

B. Postgraduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

C. Full-time:

A student enrolled for 12 or more semester hours.

D. Half-time:

A student enrolled in 6-11 semester hours.

E. Less Than Half-time:

A student enrolled in fewer than 6 semester hours.

Concurrent Enrollment

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from a School Dean. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Combined Degree Programs

Missouri Southern State College has established several combined degree programs whereby the student completes a structured number of academic hours under the regulations established by the College and combines with this the satisfactory completion of the professional curriculum from a school with which the College has an agreement.

1. Complete 94 hours at Missouri Southern State College. Transfer credit will be considered, but the last 30 of the 94 hours must be earned at MSSC.
2. The 94 hours must include the completion of the Core Curriculum requirement.
3. Sixteen out of the last 94 hours must be upper division (300 and 400 level courses).
4. All applicable "Requirements for Graduation" as stated in the Missouri Southern State College catalog must be met including the application for degree candidacy, and the filing of credentials with the Career Services Office.
5. A transcript from the institution with which a combined degree agreement is arranged must be provided in order to complete the requirements for a degree.

Co-Admission

Students who enroll at Crowder College but meet the admission requirements of Missouri Southern and plan to transfer to Missouri Southern may apply for Co-Admission. The application will be done by the Crowder College Admission Office. Records for co-admitted students will be maintained at both institutions. Missouri Southern will assist in the academic advising of co-admitted students prior to transfer to Missouri Southern.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. A student may not earn the same degree more than once, even though the majors differ. The "Residency" does apply.

Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's".

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

Late Enrollment

Enrollment in a regular semester after the first week of classes or after the third day of classes in the summer session is not advisable and is permitted only with special permission from the appropriate department head. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Student Support Center (114 Hearnes Hall). A student who completely withdraws from the college prior to the last week of classes in a regular or summer semester may receive a grade of "W" in all courses in which the student is enrolled. Withdrawal from the College after the last week of classes in a regular or summer semester will result in a grade of "F" being recorded for all courses, unless other arrangements are made through the Office of the Registrar. A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Course Withdrawal

A student may initiate the withdrawal from a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

Adding Courses

A student may add a course in the appropriate department office, but only upon the approval of an adviser. A fee will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester or after the third day of classes in the summer session without special permission.

Class Attendance

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern. The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his/her evaluation on how well the student has achieved the course goals.

In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of the Registrar.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, College approved activities, and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

The George A. Spiva Library

Charles H. Kemp, Head Librarian
Spiva Library 205, 625-9386

Librarians: Robert Black, Susan Huston, Charles Nodler, Gaye Pate, Edward Wuch

The Library consists of two units:

1. George A. Spiva Library
2. The Audio-Visual Center

The George A. Spiva Library

The Spiva Library is the major information resource on campus. Available in the Library for student use are 241,000 book volumes and 1,177 periodical titles. A state and federal government documents collection; a law library; and a 614,366 item microform collection provide additional reference materials for student research. Additional collections housed in the archive's area are the Congressional Papers of former member of the United States House of Representatives, Gene Taylor, tri-state mining maps, and the papers of the late Dr. Arrell Gibson, a noted Western historian.

The collections are housed in an attractive facility constructed in 1967. There have been three renovations of the building since then. The current renovation includes an elevator that provides easy access to all floors of the library. The staff is composed of six librarians, 13 support staff members and part-time student staff members. The Library is open from 7:30 a.m. until 11:00 p.m., Monday through Friday. On the weekends, the hours are from 9 a.m. until 11 p.m. on Saturday and from 2 p.m. until 10 p.m. on Sunday. The service week of 99.5 hours exceeds that of many academic libraries.

The teaching function of the library is important, as it should be in a college that prizes excellence in the intellectual development of its students. Every effort is made to ensure that students learn how to conduct research in the library effectively and to use information resources knowledgeably. Tours of the library are given by librarians and student guides. Workshops, class lectures and additional assistance are provided by librarians. The library staff also teach library patrons how to use computer information sources and assist them with research and information needs.

Modern technology is used heavily in the library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database of over 34 million records in over 21,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles. New services through the INTERNET allow students and faculty members access to hundreds of library catalogs, discussion groups, listservs, and additional databases. EBSCOHOST is a service over the INTERNET which indexes 3,000 periodicals. 1,000 of these are fulltext which can be read on the screen, downloaded to a file or printed on a local printer. Ariel is a system of faxing documents via the INTERNET between libraries and adds to the library's ability to provide journal articles in a timely manner.

All functions of the library are automated. Students at home or professors in their offices can call in using modems and determine what materials the library has. A useful feature of the system indicates whether a book or journal is checked out. The LION, the library's on-line public access catalog, displays periodical indexing. Besides the modern OPAC, students and faculty members enjoy automated circulation with no-wait checkout of library materials.

A new program for linking the academic libraries of Missouri will greatly increase the resources available to Southern students. Called MOBIUS, this project will provide the same client server software for all the academic libraries in Missouri. With this system, a student will be able to borrow a book from any library in Missouri and expect to receive it within 24 hours. The system should be in operation in the Fall of 1999.

The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method for students. The major indexes in business, education, social science, history, psychology, English, biology and nursing are available in the CD-ROM format. *Newsbank, The Grolier Encyclopedia* and the *Oxford English Dictionary* are a few of the formerly print-only reference materials used in the CD-ROM format by Spiva Library patrons. Specialized indexes are available through on-line searching services like DIALOG. The reference staff conduct these searches for students or faculty members at no charge. This information service provides access to several hundred additional databases. Additional information sources are available via the INTERNET. This access is open to all students and faculty members.

The library has even gone beyond indexes and can furnish the full text of articles found in the indexes in CD-ROM format for two of the databases. After searching *ABI/INFORM* or *General Periodicals Index,* a student can insert a CD-ROM in the player and either read the full article on the screen or print a copy on the laser printer. Lexis-Nexis is another important source of full-text current information. With these information sources at their disposal and the ever increasing availability of information through the INTERNET, students at Missouri Southern never lack for information for research papers. With a proposal for two major renovations being considered, the future is bright for the Spiva Library.

The Audio Visual Center

Located on the top floor of the Spiva Library are the government documents collection and the Audio Visual Center. The AVC is the audio-visual materials component of the Spiva Library. These materials include video and audio tape materials, films, slides, kits and miscellaneous instructional materials. Curriculum textbooks, curriculum guides on microfiche, juvenile and children's books that support the teacher training curriculum are housed in this area. Materials in this area are cataloged and indexed in the LION. The AVC provides appropriate playback equipment for all the materials.

The AVC staff provides limited production services like making overhead transparencies, laminating materials and copying audio-tapes. Computer services include access to word processing, database management, and programming languages. Students access computer services through a local area network. Students have access to the INTERNET and other LANs on campus from the library. The AVC has an inventory of slide projectors, video cassette recorders and monitors, audio cassette recorders and filmstrip projectors for checkout. Equipment is housed in each school and department, so the AVC equipment is limited to basic items. Helpful staff is stationed in this area to provide assistance with the computers, government documents, or audio-visual materials.

Grades and Grading Policies

Grading System

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade		*Grade Points*
A	Outstanding	4
B	Above Average	3
C	Average	2
D	Minimum Passing	1
F	Failing	0
W	Withdrawal	

The current policy for the "W" grade is as follows:

(a) Course withdrawals will be permitted through the first week of the semester without any grade recorded.
(b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
(c) Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

Credit/No-Credit System of Grading

Students in some programs may register to take certain courses on a credit/no-credit basis. In such cases, "Credit" or "No-Credit" will be recorded rather than a letter grade and these courses will not be counted in grade point averages. This program will permit a student to explore course work outside of the major without jeopardizing the grade point average. The minimum performance level required to receive credit in a credit/no-credit course is a grade of "D". Students may be eligible to enroll for certain courses on a credit/no-credit basis under the following conditions:

1. That such registration be approved by the adviser and the head of the department through which the course is offered.
2. That the student has attained sophomore rank, or higher (30 or more hours).
3. That the student has achieved a cumulative grade point average of at least 2.0.
4. That such enrollment be limited to one course per semester.
5. That the total enrollment on a credit/no-credit basis be limited to no more than three courses or 10 credit hours in any student's degree program.
6. That the courses involved are not part of the student's major or minor and are not specifically required as part of the student's degree program. (Hours beyond the minimum required for the major or minor may be taken on a credit/no-credit basis.)
7. That the courses involved are not part of the Core Curriculum requirement.
8. Normally, registration for credit/no-credit courses will be completed prior to the final date for changing registration by adding a course.
9. After a student has enrolled in a course under the credit/no-credit option, that individual may not subsequently change to a graded basis in that course.

This policy does not apply to those courses regularly designated as credit/no-credit courses. Such courses are Mus 240 Recital Attendance, Educ 462 Student Teaching.

Incomplete (I): A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F".

Audit (AU): A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade: A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the (immediate supervisor), school dean and Vice President for Academic Affairs.

Independent Study: Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed
   Associate Degree — 30 hours
   Baccalaureate Degree — 90 hours
2. have a minimum cumulative 3.00 GPA;
3. have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

Posting of Grades: College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Education Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript: An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.

The Grants Office

Nadine P. Schmidt, Grants Writer
Hearnes Hall 200, 625-9555

The Grants Office seeks out new sources of funding to enhance the College's ability to pursue its academic and student service goals. These grant-related funds supplement the College's tuition and state revenues, creating opportunities for programs, services, and equipment that might not otherwise be possible. Working closely with all areas of the college, the Grants Office writes a number of grants and proposals for funding each year for submission to federal and state grant programs, as well as to private foundations and corporations.

The Honors Program

Patricia P. Kluthe, Director
Karl J. Schmidt, Assistant Director
Webster Hall 118, 625-3005

The Honors Program at Missouri Southern State College is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students.

Entrance into the program is by invitation. Because admission is selective and competitive, classes normally are smaller than regular classes, permitting Honors students to enjoy interaction with other outstanding students in an informal atmosphere conducive to exciting and challenging discussions.

Honors courses put our best students in small classes with our best teachers – right from freshman year on. Distinguished professors and Honors students have opportunities to expand the educational experience beyond that available in regular courses. Students receive personal attention and special guidance, and the program is flexible to permit them to pursue particular scholarly interests and to engage in innovative and creative approaches to learning.

Expectations for performance in the program are high. As an Honors student, one is expected to strive for grades against these standards; one is not, however, expected to compete with others for grades. Through this program, the challenge to perform at the top of one's ability is matched by the opportunity to do so in an environment that is simultaneously fun, exciting and intellectually demanding.

The Curriculum

While students will take courses offered in Southern's regular curriculum, these five features are specifically designed for Honors students:

Honors Forum
This course is an open forum to discuss a variety of topics, issues and other matters of interest to Honors students. Active learning is nurtured as students select, design and implement topic presentations.

Core Curriculum Courses
Special sections of required courses such as English composition are designated as Honors sections. There are a number of such courses to select from each semester, and most Honors students take these during their freshman and sophomore years.

Junior Honors Courses
These are interdisciplinary seminars on a variety of special topics not normally covered in the regular college curriculum. You will have the opportunity to develop seminar presentations on topics you devise with the instructor's help.

Senior Honors Courses
Students take at least one Honors course in their major during the senior year. Working under professors in their major field, they design and carry out independent projects investigating in-depth topics that interest them.

Honors Senior Colloquium
Based on the Senior Honors Course, each student makes a presentation on that course content or course experiences to an Honors Colloquium open to a campus-wide audience. The presentation is required of each student for completion of the Honors Program.

Honors Recognition

Missouri Southern is affiliated with the National Collegiate Honors Council, The Great Plains Regional Honors Council, and Phi Eta Sigma and Alpha Chi, national honor societies. Most Honors students have the opportunity to participate in the activities of these organizations and to attend regional and national conferences.

Every Honors course one completes with a final grade of A or B is identified as an Honors course on one's transcript. If one maintains a cumulative grade point average of at least 3.5 and completes 26 hours of Honors courses, one will receive special recognition at graduation.

Oxford and Cambridge Program

To live and study at historic Christ Church College of Oxford University or at equally-renowned Cambridge University is perhaps the experience of a lifetime. Southern offers an elective summer study program in England at Oxford or Cambridge, two of the world's foremost universities. Students participate in small seminar groups led by university tutors and live in an atmosphere of university life as it has survived over the past 700 years.

A select group of students have the opportunity to participate in either program based on their advanced academic standing for hours accumulated and grade point average. Selected students choose courses offered in sessions on various subjects. Southern grants partial scholarships to students each year. Honors Program students are given priority consideration in the selection process.

There is also time for students to enjoy the rich heritage of England through formal tours and individual excursions. A great opportunity awaits those selected to be members of this distinguished community of scholars and participants in the Oxford or Cambridge experience.

The Evans Scholarship

In competing for admission to the Honors Program, students also are competing for the Walter and Fredrica Evans Scholarship, which will be awarded as funds allow to the most highly qualified applicants. The Evans is a four-year renewable scholarship that covers tuition, book rental fees and student activity fees, for fall, spring and summer semesters. Additional scholarship funds to cover on-campus room and board are available for Evans Scholars who are National Merit Scholarship semifinalists or who have an ACT composite score of 31 or better. This is the finest scholarship Southern offers.

Eligibility

All students who wish to participate in the Honors Program must be admitted to Southern. Incoming freshmen with at least a composite score on the ACT of 28 or with at least a grade point average of 3.5 (on a 4.0 scale) in high school course work are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview with the Director of the Honors Program may also be required.

Students who have already completed between 15 and 30 hours of course work with a grade point average of 3.5 at Southern or any other accredited college or university are also invited to apply for admission into the program, though they are not eligible for the Evans Scholarship.

The Honors Program will offer special admission to Missouri's associate degree graduates who hold the CBHE Bright Flight Scholarship. Those with at least a 3.5 GPA will be eligible for a scholarship that covers the full cost of tuition, room and board, activities, fees and textbook rental. Those with a 3.0 GPA will be eligible for a scholarship equivalent to our Regent's Scholarship.

International Student Exchange Program (ISEP)

Nadine P. Schmidt
Hearnes Hall 200, 625-9555

Missouri Southern students have many exciting opportunities to study in other countries. The College is a member of the International Student Exchange Program (ISEP) through which MSSC students can study and earn credit at more than 100 colleges and universities around the world. For semester or year-long exchanges, MSSC students in the ISEP program pay regular MSSC tuition and room/board fees in U.S. currency, and financial aid is applicable.

Students should contact the Institute of International Studies for information on study abroad and exchange opportunities outside the ISEP program.

The Learning Center

Eillen Godsey, Director
Mansion Classroom Building, 625-9373

Staff: James Brown, Jan Holmes, Melissa Zenon

The mission of the Learning Center is to provide a wide range of academic support programs to students and faculty. Learning Center staff are available to assist any MSSC student to become a more independent and efficient learner. All services are free.

Tutoring in Content Areas – Peer and faculty tutors are available. Some drop-in tutoring is offered, although an appointment is recommended. Both short- and long-term assistance is provided.

Writing Lab Services – Trained peer tutors instruct and coach students in all aspects of writing, such as writing process strategies, research paper documentation, and correct mechanics.

Computer Lab – The Learning Center offers a networked computer lab with Windows word-processing programs. Students may work on individual assignments or use the Center's software.

Services for Students with Disabilities – The Learning Center provides support services to students with disabilities:

- Early Registration
- Books on Tape
- Tutoring
- Alternative Testing

Support services are elective and must be requested by the student. Appropriate documentation must be provided.

Audio/Visual and Computer Assisted Instructional Resources – Tapes are on reserve in the Center and may be viewed in the Center or checked out. The collection includes faculty created study guides and practice tests, taped classes, practice drills in grammar and punctuation, national exam guides, as well as other academic support materials.

Classes

English 080 – Prepares students for college writing courses. Students write at least six major papers with special attention given to organization, syntax, grammar, and mechanics.

Academic Skills for College Success – Emphasizes current issues to improve vocabulary, comprehension and critical reading ability.

Speed Reading — Increases reading speed.

Workshops

- Word Processing
- Study Skills
- Exam Preparation

Lifelong Learning

Dr. Jack Spurlin, Vice President for Lifelong Learning
Justice Center 126, (417) 625-9328

The office of Vice President of Lifelong Learning promotes the concept that learning is a continually evolving process. Lifelong Learning provides a variety of forms of access to education in order to meet the evolving needs of the individual. Access to educational opportunity is provided through on-campus and off-campus environments during the week and through Weekend College. It is also recognized that learning is not always formalized and in some cases individuals may, through the portfolio process, achieve recognition for career and professional experiences.

Division of Continuing Education and Distance Learning

Dr. Jerry Williams, Director
Webster Hall 117, (417) 625-9384

Staff: Bryan Lawler, Technical Specialist
Morris Sweet, Chief Engineer
Don Ross, Maintenance Engineer
Robin Douglas, Production

The Division of Continuing Education is a component of the Office of the Vice President of Lifelong Learning that provides both credit and non-credit courses that supplement the college curriculum. The Division of Continuing Education is responsible for a variety of activities including distance learning. Persons who are homebound or have restrictive work schedules have access to college through one or more of the college's distance learning delivery systems. Students enrolling in these programs are considered *special* or *temporary* until they have completed the *regular admission* process to become degree-seeking students. Information is provided on the division's web site at: www.mssc.edu/dce

Televised Instruction - College credit courses are offered over cable systems in Lamar, Carthage, Monett, Pierce City, Aurora, Verona, and Neosho over the Southern Instructional Television Network. Live broadcasts afford students opportunities to talk with instructors through the use of the telephone. Delayed transmission courses are also offered for persons with schedules that do not coincide with the live telecasts.

Pathway - College courses leading to the associate of arts degree in general studies are offered through a cooperative program between Ozarks Public Television and Missouri Southern State College. The program reaches a 57 county area of Southwest Missouri and portions of Oklahoma, Arkansas and Kansas.

Web Courses - College courses are offered over the World Wide Web for the convenience of students that have work schedules that involve travel or prohibit them from attending on-campus courses. Web courses provide access to college courses for adults that have children and cannot attend the main campus, and for students that are homebound because of medical reasons.

Video Correspondence - A limited number of courses are offered through video correspondence. Video correspondence involves the use of video tape and e-mail communications.

Nevada Telecommunications Center - A number of college credit courses leading to the bachelor of science degree are provided through interactive television to the Nevada Telecommunications Center. Interactive television courses are also provided to public schools. Some courses provide traditional college credit and others provide dual credit for high school students.

Customized Training - Training programs that are customized to the specific needs of individual businesses and industry are developed in cooperation with the various academic departments on campus. Several activities that involve the Division of Continuing Education are campus-based and involve courses that are both credit bearing and non-credit bearing.

Experiential Learning - Credit may be earned for career and professional experiences that are documented through the portfolio process. Availability of experiential credit is dependent upon relevant experiences, the student's academic major and department, and the appropriate School Dean. The application process and initial advisement begins with the office of the Vice President of Lifelong Learning. For information contact: (417) 625-9328.

Continuing Education Credit Hour Courses - Courses that are offered in non-traditional scheduling formats and that are designed primarily for professionals and job improvement may be transferable to college credit through academic petition and the approval of departmental chairpersons and the Deans of Technology, Arts and Sciences, Education, and Business. Students pursuing these courses will be considered as either *special* or *temporary* unless they have completed the regular student admission process.

Community Service Courses - A number of courses are offered every semester for non-credit that are designed for personal enrichment and personal development. Students enrolling in non-credit courses are not given a student status through the Office of Admissions.

Return to Learn - Adult students can and do face problems and situations unique to their age group. This program is designed to prepare adult learners to continue their education with confidence.

60-Plus Program - The pursuit of education is not limited by a person's chronological age. The 60-Plus Program provides tuition reduction for persons sixty years of age and over and encourages the continued educational growth and prevent psychological retirement.

Videoconferences and Conference Development - A number of conferences are provided for professional development and public awareness. Many of the conferences provide continuing education units for meeting professional mandates.

The Writing Program

Doris Walters, Director
Hearnes Hall 310, 625-9644

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advise the Vice President for Academic Affairs on the development and supervision of the program.

School of Arts & Sciences

Art
Biology
Chemistry
Communications
English
Environmental Health
Foreign Languages
Geography
Geology
History
Mathematics
Music
Paralegal
Philosophy
Physics
Political Science
Pre-Law
Social Science
Sociology
Theatre

School of Arts & Sciences

School Dean

J. Larry Martin
Hearnes Hall 318, 625-9385

Degrees and Majors

Bachelor of Arts
- Art
- Chemistry
- Communications
- English
- French
- German
- History
- Music
- Political Science
- Sociology
- Spanish
- Theatre

Bachelor of Science
- Biology
- Chemistry
- Environmental Health
- Mathematics
- Physics
- Sociology

Bachelor of Science in Education
- Art
- Unified Science with
  - Biology Endorsement
- Chemistry
- English
- French
- German
- Mathematics
- Music
- Physics
- Social Studies
- Spanish
- Speech-Theatre

Options and Emphases
- Art (B.A.)
  - Studio Art
  - Graphic Communications
- Communications (B.A.)
  - Speech Communications
  - Mass Communications
  - International Communication
- Mathematics (B.S.)
  - Mathematics
  - Computational Mathematics
- Music (B.S.E.)
  - Double Certification
  - Instrumental
  - Vocal
- Social Studies (B.S.E.)
  - History
  - Political Science
  - Sociology
- Theatre (A.A.)
  - Associate of Arts with Emphasis in Theatre

Minors: See Departments

Role

Consisting of nine departments and 14 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities, and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.

Art

Art Building 205, 625-9563

Faculty Bray - Head, Christensen, Fowler, Hess, Kyle, Noblett, Schwieger

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, freelance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the master's level in a specific art discipline. Graduates with a bachelor of science in education degree with a major in art are certified through the teacher education program to teach K-12 in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review

during their first semester. Application forms and more detailed information are available in the department of art office, 204 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

Bachelor of Arts with a Major in Art

Emphasis I **Studio Art**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement (determined by art department)		**3**
Foreign Language (four courses in one language)		**12**
Art Requirements		**53**
Art 101	Basic Design	3
Art 105	Design & Color Theory**	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 211	Beginning Sculpture**	3
Art 205	Beginning Jewelry**	3
Art 230	Basic Form**	3
Art 232	Beginning Painting**	3
Art	Art History (upper division)	9
Art 310	Transparent Watercolor**	3
Art 312	Beginning Printmaking**	3
Art 300	Advanced Drawing**	
OR		
Art 421	Life Drawing**	3
Art 490	Senior Exhibit**	2
Art Electives (300 - 400 level courses)		9
Electives		**8**
		124* **

* Required language courses satisfy 3 hrs or core curriculum
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Arts with a Major in Art

Emphasis II **Graphic Communications**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement-determined by art department **		
Foreign Language (four courses in one language)		**12**
Art Requirements		**56**
Art 101	Basic Design	3
Art 105	Design & Color Theory***	3
Art 130	Beginning Drawing	3
Art 205	Beginning Jewelry***	
OR		
Art 230	Basic Form***	3
Art 215	Computer Design I***	3
Art 240	Typography and Lettering	3
Art	Art History (upper division)	9
Art 232	Beginning Painting	
OR		
Art 300	Advanced Drawing***	3
Art 421	Life Drawing***	3
Art 310	Watercolor***	3
Art 312	Beginning Printmaking***	3
Art 315	Computer Design II***	3
Art 325	Graphic Communications I***	3
Art 350	Graphic Communications II***	3
Art 425	Graphic Communications III***	3
Art 450	Graphic Communications IV*****	3
Art 490	Senior Exhibit***	2
Electives		**5**
Additional Requirement:		
CJAd 210	Basic Photography	3
		124******

Suggested Elective Courses:

Art 120	Beginning Ceramics	3
Art 232	Beginning Painting***	3
Art 205	Beginning Jewelry***	3
Art 230	Basic Form***	3
Art 211	Beginning Sculpture***	3
Art 421	Life Drawing***	3
GB 320	Business Communications***	3
MM 300	Principles of Marketing***	3
MM 401	Promotional Strategy***	3

* Required language courses satisfy 3 hrs of core curriculum
** Satisfied by Art Department requirements
***See Prerequisites
****Must include at least 40 upper division (300-400 level) hours.
*****Satisfies departmental computer literacy requirement.

Bachelor of Science in Education with a Major in Art

Grades K-12 Certification
Plan A **One of Two Teaching Fields**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Art Requirements		**41**
Art 101	Basic Design	3
Art 105	Design & Color Theory**	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 200	Arts & Crafts	3
Art 211	Beginning Sculpture**	3
Art 220	Art Education	2
Art 230	Basic Form**	3
Art 232	Beginning Painting**	3
Art 312	Beginning Printmaking**	3
Art	Art History (upper division)	9
Art Electives		3
Second Teaching Field (some fields exceed 30 hours)		**30**
Education Certification Requirements (p. 161)		**41-42**
		160-161* **

*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C
**See Prerequisites included with course descriptions
***(Varies with 2nd field)

Bachelor of Science in Education with a Major in Art

Grades K-12 Certification
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Art Requirements		**49**
Art 101	Basic Design	3
Art 105	Design & Color Theory**	
OR		
Art 230	Basic Form**	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 200	Arts & Crafts	3
Art 211	Beginning Sculpture**	3
Art 220	Art Education	2
Art 232	Beginning Painting**	3
Art 312	Beginning Printmaking**	3
Art	Art History	9
Art 490	Senior Exhibit**	2
Art	Electives	12
Education Certification Requirements (p. 161)	**41-42**	
		138-139

*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C
**See Prerequisites included with course descriptions.

Minor in Art

		Semester Hours
Art 101	Basic Design	3
Art 110	Art Appreciation	
OR		
Art	Art History	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 211	Beginning Sculpture*	
OR		
Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	
OR		
Art 310	Watercolor*	3
Art 312	Beginning Printmaking*	3
		21

*See Prerequisites included with course descriptions.

Minor in Art With Emphasis in Graphic Design

		Semester Hours
Art 101	Basic Design	3
Art 105	Design/Color Theory*	3
Art 130	Beginning Drawing	3
Art 240	Typography & Lettering	3
Art 325	Graphic Communications I*	3
Art 350	Graphic Communications II*	3
Art 425	Graphic Communications III*	3
		21

* See Prerequisites
Recommended Class: Basic Photography

Suggested Order of Study

Bachelor of Arts
Major Code 1002
Art Major
Emphasis I: Studio Art

Freshman Year
1st Semester

Course		Hours
Art 101	Basic Design	3
Art 130	Beginning Drawing	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 103 Lifetime Wellness]	2
		17

2nd Semester

Art 105	Design & Color Theory*	3
Art 230	Basic Form*	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 120 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year
1st Semester

Art 205	Beginning Jewelry*	3
Art 120	Beginning Ceramics	3
CORE	[Bio 101 General Biology]	4
CORE	[Comp 105 Comp Literacy]	3
Art	Art History **	3
		16

2nd Semester

Art 110	Art Appreciation	3
Art 211	Beginning Sculpture*	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
Art 232	Beginning Painting	3
		17

Junior Year
1st Semester

Foreign Language		3
CORE	[Mus 110 Music Apprec]	
OR		
CORE	[Th 110 Theatre Apprec]	3
Comm 305	Intercultural Comm	
OR		
Anth 342	Comparative Cultures	
OR		
GB 310	International Business	3
Art 300	Advanced Drawing	
OR		
Art 421	Life Drawing	3
Art	Art History**	3
		15

2nd Semester

Art	Art History**	3
Art 310	Watercolor	3
Art 312	Beginning Printmaking*	3
Foreign Language		3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		15

Senior Year
1st Semester

Art 490	Senior Exhibit*	2
CORE	[Eng 281/282 American Lit]	3
Art	Electives***	2
CORE	[Econ 180 Amer Econ Sys]	3
Foreign Language		3
		13

2nd Semester

Art	Art History**	3
Art	Electives***	3
Electives	Approved by the adviser***	6
	Foreign Language	3
		15

*See Prerequisites
**9 hours required-select from Art 301, 302, 303 or 304 Art History
***Select from 300 or 400 level courses
[Department Recommendations]

Bachelor of Arts
Major Code 1003
Art Major
Emphasis II: Graphic Communications

Freshman Year
1st Semester

Course		Hours
Art 101	Basic Design	3
Art 130	Beginning Drawing	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Psy 120 College Orient]	1
		18

2nd Semester

Art 105	Design & Color Theory*	3
CJAd 210	Basic Photography	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 120 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year
1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 320	Basic Form*	3
Art 240	Typography & Lettering	3
Art 215	Computer Design I*	3
CORE	[Bio 101 General Biology]	4
CORE	[Eng 271/272 English Lit]	3
		16

2nd Semester

Art 232	Beginning Painting	
OR		
Art 300	Advanced Drawing*	3
Art 412	Life Drawing*	3
Art 315	Computer Design II*	3
CORE	[Phys 100 Phys Sci]	5
CORE	[Eng 281/282 American Lit]	3
		17

Junior Year
1st Semester

Art 110	Art Appreciation	3
Art 310	Watercolor*	3
Art 325	Graphic Comm I*	3
		12

2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art 350	Graphic Comm II*	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
		15

Senior Year
1st Semester

Art	Art History**	3
Art 490	Senior Exhibit*	2
Art 425	Graphic Comm III*	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Art Elective		2
Foreign Language		3
		16

2nd Semester

Art	Art History**	3
Art 450	Graphic Comm IV* ***	3
CORE	[Econ 180 Amer Econ Sys]	3
Art Elective		2
Foreign Language		3
		14

* See Prerequisites
**9 hours required—select from Art 301, 302, 303 or 304 Art History
***Satisfies departmental requirement for a computer application course.
[Department Recommendations]

Bachelor of Science in Education
Major Code 0831
Art Major (Plan B)
Single Teaching Field
Grades K-12 Certification

Freshman Year
1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
Art 101	Basic Design	3
CORE	[Eng 101 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Psy 120 College Orient]	1
		16

2nd Semester

Art 110	Art Appreciation	3
Art 130	Beginning Drawing	3
Art 105	Design & Color Theory*	
OR		
Art 230	Basic Form*	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 101 Physical Activity]	1
Psy 305	Developmental Psychology	3
		19

Sophomore Year
1st Semester
Take C-Base test.

Educ 200	Orientation to Educ II	1
Art 200	Arts & Crafts	3
Art 220	Art Education	2
Art	Elective	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		19

2nd Semester
Apply for admission to Teacher Education.

Educ/Psy 302	The Exceptional Child	2
Educ 301/401	Computer Software***	3
If computer literacy requirement is not met in the specialty department.		
Art 211	Beginning Sculpture*	3
Art 232	Beginning Painting*	3
CORE	[Eng 281/282 American Lit]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		19

Junior Year
1st Semester
Pass media competencies.

Psy 310	Educational Psychology	2
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Note: See Ed 420 below****		
Art	Art History**	3
Comm 305	Intercultural Comm	
OR		
Anth 342	Comparative Cultures	
OR		
GB 310	International Business	3
		16

2nd Semester

Educ 422	Tch Reading in the Sec Sch	2
Art 120	Beginning Ceramics	3
Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art	Elective	3
CORE	[Econ 180 Amer Econ Sys]	3
		17

Senior Year
1st Semester
Apply for student teaching. All course work must be completed except for professional semester courses.

Art	Art History**	3
Art 490	Senior Exhibit*	2
Art	Elective	6
CORE	[Eng 271/272 English Lit]	3
CORE	[Hist 120 U.S. History]	3
		17

2nd Semester

Educ 337	Tchng Art in the Sec Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Select one:		
Educ 412	Indivi Curri Dev (2)	
OR		
Educ 420	Intro to Counseling**** (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching K-12	8
		16-17

*See Prerequisites
**9 hrs. required—select from Art 301, 302, 303 or 304 Art History
***Satisfies departmental requirement for a computer application course.
****Offered at night only. Must be taken the semester prior to student teaching.
[Departmental Recommendations]

After accumulating 21 hrs. in art, students must make application for their Junior Review via their adviser.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:
Mr. Jim Bray
Office: Art Building 303
Phone: 625-9563
E-Mail: bray-j@mail.mssc.edu

Course Descriptions

Art 101 (F and/or S) 3 hrs. cr.
Basic Design
Foundation studio course using design principles and elements of structure. Six studio hrs. per week. Lab fee required.

Art 105 (F and/or S) 3 hrs. cr.
Design and Color Theory
Foundation studio course dealing with the theories, problems and applications of color. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 or approval of instructor.

Art 110 (F, S) 3 hrs. cr.
Art Appreciation
A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the George A. Spiva Center for the Arts. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for non-art majors.

Art 120 (F and/or S) 3 hrs. cr.
Beginning Ceramics
Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hrs. per week. Lab fee required.

Art 130 (F and/or S) 3 hrs. cr.
Beginning Drawing
Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media. Six studio hrs. per week.

Art 200 (F or S) 3 hrs. cr.
Arts & Crafts
Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

Art 205 (F and/or S) 3 hrs. cr.
Beginning Jewelry Design/Metalsmithing
Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and/or Art 105 or approval of instructor.

Art 211 (F and/or S) 3 hrs. cr.
Beginning Sculpture
Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 105 and/or Art 230, or approval of instructor.

Art 215 (F) 3 hrs. cr.
Computer Design I
Introduction to PageMaker and Freehand programs used on the Macintosh computer. Students will study desktop publishing, page layout, proper use of type and images. File and disk management, memory, storage and scanning will be included. Six studio hours per week. Lab fee required. Prerequisite: Art 101, Comp 105, or approval of instructor.

Art 220 (F, S) 2 hrs. cr.
Art Education
Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors. Lab fee required.

Art 230 (F and/or S) 3 hrs. cr.
Basic Form
Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101.

Art 232 (F and/or S) 3 hrs. cr.
Beginning Painting
Procedures, techniques, historical processes and basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and Art 130.

Art 240 3 hrs. cr.
Typography and Lettering
A studio course introducing the art of lettering/typography. Designed to develop the skills needed to competently use the tools, materials and methods employed by professionals in rendering layouts and comprehensives. All assignments use lettering or typography as the primary design element. Six studio hrs. per week. Lab fee required.

Art 300 (F and/or S) 3 hrs. cr.
Advanced Drawing
Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 101 and Art 130 or approval of instructor.

Art 301 (S, Odd) 3 hrs. cr.
Art History, Prehistoric Through Gothic
Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, North Africa and Europe.

Art 302 (F, Odd) 3 hrs. cr.
Art History, Renaissance Through Baroque
Historical survey of the visual arts of Europe from the Early Renaissance through the Baroque and Rococo. Comparative study of other cultures included.

Art 303 (S, Even) 3 hrs. cr.
Art History, 19th Century
Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism.

Art 304 (F, Even) 3 hrs. cr.
Art History, 20th Century
Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

Art 305 (Demand) 3 hrs. cr.
Art History: Special Topics
Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.

Art 310 (F or S) 3 hrs. cr.
Transparent Watercolor
Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 101 and Art 130 or permission of instructor.

Art 312 (F and/or S) 3 hrs. cr.
Beginning Printmaking
Procedures, techniques and fundamentals of the relief, intaglio process: etching, drypoint, aquatint, softground; collagraph printmaking and monotypes. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required. Prerequisite: Art 130.

Art 315 (S) 3 hrs. cr.
Computer Design II
Advanced course desgined primarily for the use of Illustrator and Photoshop on a Macintosh platform. Topics will include, photo editing and creative illustration. Preparation techniques for pre-press setup will be covered. Prerequisite: Art 215 or approval of instructor.

Art 321 (F and/or S) 3 hrs. cr.
Advanced Sculpture
Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.

Art 322 (F and/or S) 3 hrs. cr.
Advanced Sculpture
Continuation of Art 321. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs.

Art 325 (F) 3 hrs. cr.
Graphic Communications I
Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101, Art 105 and Art 130.

Art 330 (F and/or S) 3 hrs. cr.
Advanced Jewelry Design/Metalsmithing
Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.

Art 350 (S) 3 hrs. cr.
Graphic Communications II
Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.

Art 401 (F and/or S) 3 hrs. cr.
Advanced Painting
Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

Art 407 (F and/or S) 3 hrs. cr.
Advanced Ceramics
Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.

Art 420 (F and/or S) 3 hrs. cr.
Special Projects in Art I
Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee required. May be repeated for a total of 6 credit hrs.

Art 421 (F and/or S) 3 hrs. cr.
Life Drawing
Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232or Art 300.

Art 425 (F) 3 hrs. cr.
Graphic Communications III
Continued study of Graphic Communications II with an emphasis on the design and preparation of two and three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.

Art 430 (F and/or S) 3 hrs. cr.
Advanced Printmaking
Stencils (silkscreen), lithographic, advanced intaglio, relief and monoprint processes. Advanced studio methods for color registration and mixed media procedures. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.

Art 440 (F and/or S) 3 hrs. cr.
Special Projects in Art II
Same as Art 420. May be repeated for a total 6 credit hrs. Lab fee may be required.

Art 450 (S) 3 hrs. cr.
Graphic Communications IV
Advance study of graphic design layout, production and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

Art 475 (Demand) 1-8 hrs. cr.
Graphic Communications Internship
An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.

Art 490 (F) 2 hrs. cr.
Senior Exhibit
Prepares senior art majors for their exhibit which is normally scheduled during spring in the Spiva Art Gallery. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

Art 498 1-3 hrs. cr.
Art Seminar
For upper division Art majors or related majors. Topics and methods of current interest not included in other courses. Enrollment by permission of seminar instructor or department head required. Prerequisites to be determined by Art Department.

Art 499 (F and/or S) 1-3 hrs. cr.
Independent Study
An in-depth study of some specialized topic or project not considered in the art department course offerings. An adviser from the art faculty will structure the independent study with the approval of the department head. Prerequisite: At least 90 hours completed and an overall cumulative GPA of 3.0 or higher. Enrollment must be approved by the department head and school dean.

Biology

Reynolds Hall 210, 625-9376

Faculty Messick - Head, Adams, Bay-Grillett, Fletcher, Jackson, Knight, Lawson, Roettger, Schlink, Wells

Biology and unified science majors take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, Introduction to Human Biology, satisfies the biological science requirement for students in nursing, most associated degree programs that are health related, and certain other majors. Students meeting the core requirement with Bio 121 usually take additional biology courses, as well.

Bachelor of Science with a Major in Biology
(Major Codes 0401-0409)

		Semester Hours
Core Requirements (p. 33) 51*		**39**
Computer Literacy Requirement determined by biology department		**2-3**
Biology Requirements		**40**
Bio 101	General Biology	4
Bio 112	Botanical Survey**	3
Bio 122	Zoological Survey**	3
Bio 210	Molecular & Cellular Biology**	4
Bio 231	General & Medical Microbiology**	5
Bio 305	Genetics**	4
Bio 490	Seminar**	1
Bio	Upper Division Botany Elective**	3-4
Bio	Upper Division Zoology Elective**	4-5
Bio	Upper Division Ecology Elective**	4
Bio	Electives	3-5
Supporting Requirements		**25**
Math 140	Algebra and Trig**	
(Math 112 + Math 130 = Math 140)		
OR		
Math 150	Calculus with Analytic Geometry I**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Intro to Modern Organic Chemistry**	
OR		
Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I**	5
Electives		**17-18**
		124* **

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hours of the Core Curriculum.
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major. Preprofessional students may need additional or different courses to meet admission requirements. See the explanation following the Suggested Order of Study, and consult the appropriate adviser. Additions for preprofessional students are not required for the B.S. in Biology.

Bachelor of Science in Education with a Major in Unified Science, Biology Endorsement

(Major Code 0880)
Unified Science With an Endorsement in Biology

		Semester Hours
Core Requirements (p. 33)		**36**
Educ 301	**Use of Computer Software in the Classroom**	**3**
Biology Requirements		**35-36**
Required Biology Courses		**10**
Bio 101	General Biology	4
Bio 112	Botanical Survey**	3
Bio 122	Zoological Survey**	3
Microbiology, Genetics, Cell Biology & Biochemistry, and Evolution		**18**
Bio 305	Genetics**	4
Bio 210	Molecular and Cellular Biology**	4
Bio 231	General and Medical Microbiology**	5
Bio 221	Human Anatomy and Physiology**	
OR		
Bio 331	Comparative Vertebrate Anatomy**	5
Botany - select one:		**3-4**
Bio 271	Principles of Plant Propagation (3)**	
Bio 316	Economic Botany (3)**	
Bio 322	Taxonomy of Flowering Plants (4)**	
Bio 371	Plant Physiology (4)**	
Bio 440	Plant Pathology (4)**	
Ecology - select one:		**4**
Bio 312	Environmental Biology (4)**	
Bio 402	General Ecology (4)**	
Bio 481	Aquatic Ecology (4)**	
Supporting Requirements		**35**
Phil 420	Philosophy of Science**	
OR		
Approved Substitute		3
Math 140	Algebra and Trig**	5
(Math 112 + Math 130 = Math 140)		
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Phys 151	Elem College Physics I**	5
Phys 152	Elem College Physics II**	4
Geol 110	Intro to Geology	5
Geol 180	Intro to Meteorology	3
Education Requirements (p. 161)		**40-42**
		149-151

Completion of the Biology Education program qualifies you to teach introductory level courses in biology, chemistry, earth science and physics, and to teach advanced courses in biology.

*Required courses in biology, chemistry, mathematics, physics and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.
**See Prerequisites
Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Minors in Biology

Minor in Biology
(botany-horticulture emphasis, minor code BIOB)

		Semester Hours
Chem 100	Introductory Chemistry	5
Bio 101	General Biology	4
Bio 112	Botanical Survey*	3
Bio 316	Economic Botany*	3
Bio 271	Prin of Plant Propagation*	3
Bio 440	Plant Pathology*	4
Bio 322	Taxonomy of Flowering Plants*	4
Bio 332	Intro to Entomology*	4
Bio 499	Problems in Biology (1-3)*	
OR		
Bio 450	Internship in Biology (1-8)*	1-8
		31-38

Minor in Biology
(zoology emphasis, minor code BIOZ)

Bio 101	General Biology	4
Bio 122	Zoological Survey*	3
Bio 331	Comparative Anat (5)*	
OR		
Bio 201	Human Anatomy (4)*	4-5
Bio 431	Animal Physiology*	
OR		
Bio 301	Human Physiology*	4
Bio 433	Histology (4)*	
OR		
Bio 462	Embryology (5)*	4-5
Bio 422	Invertebrate Zoo (5)*	
OR		
Bio 361	Parasitology (4)*	4-5
Bio 499	Problems in Biology*	1-3
		24-29

Minor in Biology
(environmental health emphasis, minor code BIEH)

Bio 101	General Biology	4
Bio 231	General and Medical Microbiology*	5
Bio 312	Environmental Bio*	4
Upper Division Bio or Env Health Electives		8-10
		21-30

Minor in Biology
(microbiology & biotechnology emphasis, minor code BIOM)

Bio 361	Parasitology* **	4
Bio 362	Virology*	4
Bio 442	Pathogenic Bacteriology*	5
Bio 456	Immunology*	4
Select one:		2-5
Chem 351	Biochemistry (4)*	
Bio 308	Pathophysiology (4)* **	
Bio 331	Comparative Vertebrate Anatomy (5)* **	
Bio 350	Techniques in Microbiology (2)*	
Bio 380	Epidemiology (3)*	
Bio 433	Histology (4)* **	
Bio 462	Embryology (5)* **	
Bio 481	Aquatic Ecology (4)* ***	
		19-22

*See prerequisites
**Satisfies upper division zoology requirement for biology major
***Satisfies upper division environmental requirement for biology major

Suggested Order of Study

Bachelor of Science

Major codes 401, 408, 409; Preprofessional Students (402-407), see adviser

Biology Major

Freshman Year
1st Semester

Course		Hours
Bio 101	General Biology	4
Math 140	Algebra and Trig	5
CORE	[Eng 101 Comp I]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		17

2nd Semester

Chem 101	Gen Chemistry I (Math 140)	5
Bio 112	Botanical Survey (Bio 101)	3
CORE	[Hist 110 U.S. History]	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
		17

Sophomore Year
1st Semester

Bio 122	Zoological Survey (Bio 101)	3
Bio 231	Gen & Med Micro (Bio 101, Chem 100 or 101)	5
Chem 102	Gen Chem II (Chem 101)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		16

2nd Semester

Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)	4
Chem 300	Intro Organic Chem (Chem 102)	5
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing course		2-3
CORE	[International Cultural Stu]	3
CORE	[Econ 180 Amer Econ Sys]	3
		17-18

Junior Year
1st Semester

Bio 305	Genetics (Bio 101)	4
Bio 331	Compar Verte Anat (Bio 122)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[Humanities and Fine Arts]	3
		17

2nd Semester

Bio 431	Animal Physiology (Bio 331)	
OR		
Bio 433	Histology (Bio 112, 122)	
OR		
Bio 462	Embryology (Bio 331)	4-5
Bio 322	Plant Taxonomy	4
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[Kine 103 Lifetime Wellness]	2
		16-17

Senior Year
1st Semester

Bio 362	Virology (Bio 231, 305)	4
Bio 371	Plant Phys (Bio 112, 210)	4
Bio	Electives	5
CORE	[Behavioral Science]	3
		16

2nd Semester

Bio 402	Ecology (Bio 112, 122)	
OR		
Bio 481	Aquatic Ecology (Bio 122)	4
Bio 456	Immunology (Bio 231, 305)	4
Bio 490	Seminar (consent)	1
Bio	Electives	8
		17

[Department Recommendations]
(Prerequisites)

Program must satisfy Writing Intensive requirements. (See p. 54)

Although not required for the B.S. in Biology, some students may need additional courses to meet admission requirements for professional or graduate school. Students should contact their adviser and prospective professional schools as soon as possible.

Bachelor of Science in Education
Major Code 0880
Unified Science with Biology Endorsement

Freshman Year
1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
Math 140	Algebra & Trig	5
Psy 100	General Psychology	3
Psy 120	College Orientation	1
		16

2nd Semester

Bio 122	Zoology Survey (Bio 101)	3
Bio 231	Gen/Med Microbio (Bio 101)	5
CORE	[Humanities and Fine Arts]	3
Chem 101	General Chemistry I	5
		16

Summer Semester

CORE	[Humanities & Fine Arts]	3
CORE	[Eng 102 Comp II]	3
		6

Sophomore Year
1st Semester
Take C-Base Test.

Bio 112	Botanical Survey (Bio 101)	3
Chem 102	Gen Chem II (Chem 101)	5
CORE	[Kine 101 Physical Activity]	1
Geol 180	Intro to Meteorology	3
Psy 301	Adolescent Psychology	3
		15

2nd Semester
Apply for admission to teacher education.

Phys 151	Elem Col Phys I (Math 140)	5
Bio 305	Genetics (Bio 101)	4
Educ 301	Computer Software	3
Educ 302	[Psy 302] The Excep Child	2
CORE	[Hist 110 U.S. 1877-Present]	3
		17

Summer Semester

CORE	[Humanities and Fine Arts]	3
CORE	[Comm100 Oral Comm]	3
		6

Junior Year
1st Semester
Pass Media Competencies.

Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Kine 103 Lifetime Wellness]	2
Psy 310	Education Psychology	2
Phil 402	Philosophy of Science	
OR		
Approved Substitute		3
Phys 152	Elem Coll Phys II (Phys 151)	4
		19

2nd Semester

Bio 402	General Ecology (Bio 112, 122)	
OR		
Approved Ecology Elective		4
Bio 210	Molec & Cellular Bio (Bio 122, 122, Chem 102)	4
Bio 322	Taxonomy of Flowering Plants	
OR		
Approved Botany Elective		3-4
Educ 422	Content Area Literacy: Secondary	2
CORE	[Econ 180 Amer Econ System]	3
		16-17

Summer Semester

CORE	[Hist 320 U.S. 1877-Present]	3

Senior Year
1st Semester
Apply for student teaching. All course work must be completed except for Professional Semester courses.

Bio 221	Human Anatomy & Physiology (Bio 121 or consent)	
OR		
Bio 331	Compar Vertebrate Anatomy (Bio 122)	5
CORE	[PSc 120 Gov't:U.S./St/Loc]	3
Geo 110	Intro to Geology	5
CORE	[International Cultural Stud]	3
		16

2nd Semester

Educ 333	Tching Sci in Sec Sch	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Select One:		
Educ 412	Indivi Curr Development (2)	
OR		
Educ 420	Intro to Counseling (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 462	Stu Tchng in Sec School	8
		17-18

(Prerequisites)
[Department Recommendations] -not necessarily in this order

Program must satisfy Writing Intensive requirements. (See page 54.)

For additional information contact:
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Course Descriptions

Bio 101 (F, S) 4 hrs. cr.
General Biology
General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

Bio 112 (F, S) 3 hrs. cr.
Botanical Survey
Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 121 (F, S) 4 hrs. cr.
Introduction to Human Biology
Introduction to the basic principles of human cytology, histology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 221. Three lectures, one 2-hr. lab per week. Not for Biology majors. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

Bio 122 (F, S) 3 hrs. cr.
Zoological Survey
Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

Bio 201 (S) 4 hrs. cr.
Human Anatomy
A general treatment of human anatomy from the tissue through the organ system levels of organization. The lecture provides the conceptual and organizational framework for laboratory, which utilizes microscopy, dissection, anatomical models, and anatomical software. Three hours of lectures, one 3 hr. lab per week. Credit toward the biology major granted for one anatomy course: Bio 201 or 221. Prerequisite: Bio 101.

Bio 210 (F, S) 4 hrs. cr.
Molecular and Cellular Biology
(Writing Intensive)
Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

Bio 221 (F, S) 5 hrs. cr.
Human Anatomy and Physiology
Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Credit toward the biology major granted for one physiology course: Bio 221, 301, or 431. Prerequisite: Bio. 101 or 121.

Bio 231 (F, S) 5 hrs. cr.
General and Medical Microbiology
Structure and function of microorganisms. Topics include general principles of microbiology, immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 101 or 121. Chem 100 or 101 strongly recommended.

Bio 240 (S) 3 hrs. cr.
Radiation Biology
Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Five hrs. of chemistry or acceptance into the School of Radiologic Technology.

Bio 261 (Demand) 3 hrs. cr.
Animal Nutrition
Fundamental principles of animal nutrition with special emphasis given to applied nutrition and life-cycle feeding of domestic animals. Three lectures per week. Prerequisite: Bio 210.

Bio 271 (Demand) 3 hrs. cr.
Principles of Plant Propagation
Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week.

Bio 290 (Demand) 2 hrs. cr.
Research Methods in Biology *(Writing Intensive)*
Development of investigational and technical skills required in environmental health, biology and related fields. Familiarizes students with research design and statistical analysis. Two hours of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisite: Bio 101 and Math 140.

Bio 298 (Demand) 1-8 hrs. cr.
Selected Topics in Biology
Specific topic or topics not normally included in another course. Prerequisites: Bio 101.

Bio 301 (F) 4 hrs. cr.
Human Physiology
A general treatment of normal human physiology which emphasizes physiological control and homeostasis at the organ system level of organization. Lecture focuses on physiological processes and concepts; the lab emphasizes the measurement of physiological variables. Three hours of lecture and one 3 hr. lab per week. Credit toward the biology major granted for one physiology course: Bio 301, 306 or 431. Prerequisite: Bio 201.

Bio 303 (Demand) 2 hrs. cr.
Computer Applications in Biology
Explores ways in which microcomputers are used to better understand and study biological phenomena. Satisfies the computer literacy requirement for biology and environmental health majors. One lecture, 3-hrs. of lab per week. Prerequisites: Bio 101.

Bio 305 (F, S) 4 hrs. Cr.
Genetics *(Writing Intensive)*
Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 308 (Demand) 4 hrs. cr.
Pathophysiology
Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 301 or 306.

Bio 312 (F) 4 hrs. cr.
Environmental Biology *(Writing Intensive)*
Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112 and 122 or permission. (Double listed in Environmental Health Technology.)

Bio 316 (F) 3 hrs. cr.
Economic Botany
Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological usage, etc. Three lectures a week. Prerequisite: Bio 101.

Bio 322 (S) 4 hrs. cr.
Taxonomy of Flowering Plants
Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisite: Bio 112.

Bio 331 (F) 5 hrs. cr.
Comparative Vertebrate Anatomy
Fundamental course designed to enhance understanding and appreciation of the structure and adaptions of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisite: Bio 122.

Bio 332 (F, Even) 4 hrs. cr.
Introduction to Entomology
Collecting methods, taxonomy, life history, morphology and evolution of insects. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 350 (Demand) 2 hrs. cr.
Techniques in Microbiology
Training in molecular techniques in microbiology through analysis of bacterial antibiotic resistance patterns and their medical ramifications. Includes the origin, incidence, effects, and prevention of antibiotic resistance. Techniques include screening and harvesting plasmid DNA and transference of plasmid DNA. Prerequisite: Bio 231.

Bio 352 (Demand) 2 hrs. cr.
Biomes
Indepth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission.

Bio 361 (F, Even) 4 hrs. cr.
Parasitology
Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 362 (F, Odd) 4 hrs. cr.
Virology
Structure, classification and life cycles of bacterial, animal and plant viruses, their significance in disease (including cancer) and the use of viruses in modern biological research. The laboratory will stress the cultivation of viruses in bacterial and other cells. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 231 and 305.

Bio 370 (Demand) 3 hrs. cr.
Environmental Health
Contemporary environmental health problems and public protection measures, including public health disease prevention and environmental health hazards. Three lectures per week. Prerequisite: Bio 231. (Double listed in Environmental Health Technology.)

Bio 371 (S, Odd) 4 hrs. cr.
Plant Physiology
Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112 and 210.

Bio 380 (S, Odd) 3 hrs. cr.
Epidemiology
Introduction to the concepts, principles and methods useful in the surveillance and investigation of communicable disease. Prerequisites: Bio 290. (Double listed in Environmental Health Technology.)

Bio 402 (S) 4 hrs. cr.
General Ecology *(Writing Intensive)*
Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission.

Bio 422 (Demand) 5 hrs. cr.
Invertebrate Zoology
Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 122.

Bio 431 (Demand) 4 hrs. cr.
Animal Physiology
Comparative approach to the physiology of animals with emphasis on laboratory studies of both mammalian and non-mammalian vertebrates. Three lectures and one 3-hr. lab per week. Credit toward the biology major granted for one of the following: Bio 301, 306 or 431. Prerequisite: Bio 331.

Bio 433 (S, Even) 4 hrs. cr.
Histology
Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week Prerequisite: Bio 122.

Bio 440 (F, Odd) 4 hrs. cr.
Plant Pathology
Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112.

Bio 442 (S, Even) 5 hrs. cr.
Pathogenic Bacteriology
A basic study of the structure, identification and pathology of the infectious bacteria. Three hours of lecture and two 2-hr. labs per week. Prerequisite: Bio 231.

Bio 450 (F, S) 1-8 hrs. cr.
Internship in Biology
In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs. or permission.

Bio 456 (S, Even) 4 hrs. cr.
Immunology
Cellular and molecular basis of the immune response in vertebrates including structure, induction and regulation of the immune response. Autoimmune disorders, vaccines, transplantation and diagnostic immunology will also be presented. The laboratory will stress the induction and manipulation of the immune response. Three lectures and one 3-hr. lab per week. Prerequisites: 231 and 305.

Bio 462 (S, Odd) 5 hrs. cr.
Embryology
Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 331.

Bio 481 (S, Odd) 4 hrs. cr.
Aquatic Ecology
Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisite: Bio 122.

Bio 490 (F, S) 1 hr. cr.
Seminar
Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Students will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science. Bio 490 may be repeated for additional credit.

Bio 498 (Demand) 1-5 hrs. cr.
Seminar in Biology
For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisites: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission.

Bio 499 (F, S) 1-3 hrs. cr.
Problems in Biology
Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of biology.

Chemistry

Reynolds Hall 210, 625-9376

Faculty Sloan - Head, Albright, Archer, Garoutte, Mosher, Summerfield

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

Bachelor of Arts with a Major in Chemistry

		Semester Hours
Core Requirements (p. 33)		**51* 43**
Foreign Language (four courses in one language)		**12**
Chemistry Requirements		**28**
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I**	5
Chem 320	Computer Applications in Chemistry*	2
AND BOTH		
Chem 301	Organic Chemistry I	5
Chem 302	Organic Chemistry II	5
AND		
Upper Division Chemistry Electives (4 hrs)	excluding Chem 300	4
OR BOTH		
Chem 300	Intro to Modern Organic Chemistry	5
Chem 421	Analytical Chemistry II	5
and Upper Division Chemistry	Electives (4 hrs.) excluding Chem 301 and Chem 302	4
Supporting Requirements		**14**
Phys 151	Elementary College Physics I**	5
Phys 152	Elementary College Physics II**	4
Math 150	Calculus with Analytic Geom I**	5
Electives		**21**
		124

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hours.
Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

Bachelor of Science with a Major in Chemistry

		Semester Hours
Core Requirements (p. 33) 51*		**43**
Chemistry Requirements		**35**
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I**	5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 320	Computer Applications in Chemistry*	2
Chem 401	Physical Chemistry I**	4
Chem 402	Physical Chemistry II**	4
Supporting Requirements		**23**
Phys 160	General PhysicsI**	3
Phys 270	General Physics II**	5
Phys 280	General Physics III**	5
Math 150	Calculus with Analytic Geometry I**	5
Math 250	Calculus with Analytic Geometry II**	5
Electives* **		**22**
		124**

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.
**See Prerequisites
***Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)
****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Chemistry

Grades 9-12 Certification
Unified Science with a Chemistry Endorsement

		Semester Hours
Core Requirements (p. 33) 51*		**36**
Chemistry Requirements		**27**
Chem 201	Analytical Chemistry I**	5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 320	Computer Applications in Chemistry	2
Chem 351	Biochemistry**	4
Chem 401	Physical Chemistry I**	4
Chem 496	Problems in Chemistry	2
Supporting Requirements		**60**
Phil 420	Philosophy of Science	3
Bio 110	General Biology	4
Bio 112	Botanical Survey**	4
Bio 122	Zoological Survey**	4
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Phys 160	General Physics I**	3
Phys 270	General Physics II**	5
Phys 280	General Physics III**	5
Geol 110	Intro to Geology	5
Geol 180	Intro to Meteorology	3
Math 150	Calculus/Analytic Geometry I**	5
Math 250	Calculus/Analytic Geometry II**	5
Select one:		
Bio 312	Environmental Biology	4
Bio 402	General Ecology	4
Bio 481	Aquatic Ecology	4
Geol 300	Environmental Geology	4
Education Certification Requirements (p. 161)		**41-42**
		165-166

*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.
**See Prerequisites

Minor in Chemistry

		Semester Hours
Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
AND		
Chem 300	Introduction to Modern Organic Chemistry*	5
OR BOTH		
Chem 301	Organic Chemistry I*	5
Chem 302	Organic Chemistry II**	5
		20-25

*See Prerequisites

Suggested Order of Study

Bachelor of Arts
Major Code 1905
Chemistry Major

Freshman Year
1st Semester

Course		Hours
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 U.S. History]	3
Chem 320	Computer App. Chem.	2
		16

Sophomore Year
1st Semester

Chem 301	Org Chem I* (Chem 102)	
OR		
Chem 201	Analy Chem I (Chem 102)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[Kine 101 Physical Activity]	1
Electives	(Sec area of concentration)	5
		16

2nd Semester

Chem 302	Org Chem II* (Chem 301)	
OR		
Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
Phys 152	Elem Col Phys II (Phys 151)	4
CORE	[Econ 180 Amer Econ Sys]	3
Electives	(Sec area of concentration)	5
		17

Junior Year
1st Semester

Chem 201	Analy Chem I (Chem 102)	
OR		
Chem	[Upper Division Elective]	4-5
Foreign Language		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
Electives		3
		16-17

2nd Semester

Chem	[Upper Division Elective]	4
Foreign Language		3
CORE	[Psy 100 or Soc 110]	3
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3
		17

Senior Year
1st Semester

CORE	[Humanities and Fine Arts]	3
Foreign Language		3
CORE	[International Cultural Stu]	3
Electives		6
		15

2nd Semester

Foreign Language		3
CORE	[Hist 120 or 320 U.S. Hist]	3
Electives		6-7
		12-13

Student may elect either Chem 300 plus 8 hours of upper division chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division chemistry electives (excluding Chem 300).

(Prerequisites)
[Department Recommendations]

For additional information contact:
Dr. Melvyn Mosher
Office: Reynolds Hall 242
Phone: 625-9733
E-Mail: mosher-m@mail.mssc.edu

Bachelor of Science
Major Code 1905
Chemistry Major

Freshman Year
1st Semester

Course		Hours
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
Comp 110	Programming I	3
Psy 120	College Orientation	1
		17

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Math 250	Calculus II (Math 150)	5
Phys 160	General Physics I (Math 140)	3
Chem 320	Computer App. in Chem	2
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year
1st Semester

Chem 301	Org Chemistry I (Chem 102)	5
CORE	[Eng 102 Comp II]	3
Phys 270	General Physics II (Math 150 & Phys 160)	5
Elective	[Math 260 Calc III] (Math 250)	5
		18

2nd Semester

Chem 302	Org Chem (Chem 301)	5
Phys 280	Gen Physics III (Phys 270)	5
Elective	[Math 322 Differential Equations] (Math 260)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		16

Junior Year
1st Semester

Chem 401	Phys Chem I (Math 250, Phys 260)	
OR		
Elective	[Chem 422 Adv Inorg Chem] (Chem 102, Math 250)	4
Chem 201	Analy Chem I (Chem 102)	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Hist 110 U.S. History]	3
		17

2nd Semester

Chem 402	Physical Chem II (Chem 401)	
OR		
Elective	[Chem 472 Organic Qualitative Analysis] (Chem 302)	4
Elective	[Chem 421 Analytical Chemistry II] (Chem 210)	5
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
		16

Senior Year
1st Semester

Chem 401	Phys Chem I (Math 250, Phys 280)	
OR		
Elective	[Chem 422 Adv Inorganic Chem] (Chem 102, Math 250)	4
Elective	[Chem 497 Res in Chem]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[International Cultural Stu]	3
		14

2nd Semester

Chem 402	Physical Chemistry II (Chem 401)	
OR		
Elective	[Chem 472 Org Qualitative Analysis] (Chem 302)	4
Elective	[Chem 497 Res in Chem]	2
Elective	[Phys 372 Electronic Circuits] (Phys 280)	4
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 100 or Soc 110]	3
		16

(Prerequisites)
[Department Recommendations]

For additional information contact:
Dr. Melvyn Mosher
Office: Reynolds Hall 242
Phone: 625-9733
E-Mail: mosher-m@mail.mssc.edu

Course Descriptions

Chem 100 (F, S) 5 hrs. cr.
Introductory Chemistry
Basic principles and practical applications of inorganic, organic and biochemistry which satisfies the needs of students in certain health-related programs. Four lectures, one 3-hr. lab per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

Chem 101 (F, S, SS) 5 hrs. cr.
General Chemistry I
Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Four lectures, one 3-hr. lab per week. Prerequisite or corequisite: Math 140 or higher level math course.

Chem 102 (F, S, SS) 5 hrs. cr.
General Chemistry II
Continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Four lectures, one lab per week. Prerequisites: Chem 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course.

Chem 190 (Demand) 1-2 hrs. cr.
Laboratory in Chemistry
A lower division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 201 (F) 5 hrs. cr.
Analytical Chemistry I
Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

Chem 297 (F, S) 1-3 hrs. cr.
Introduction to Research in Chemistry
(Writing Intensive)
Introduction to research techniques; laboratory work and literature search under the supervision of an instructor on a chemical research project. Involves laboratory experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 15 hours of chemistry, 2) freshman or sophomore standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 298 (F, S) 1-3 hrs. cr.
Selected Topics in Chemistry
Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Chem 300 (F, S) 5 hrs. cr.
Introduction to Modern Organic Chemistry
(Writing Intensive)
Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 301 (F) 5 hrs. cr.
Organic Chemistry I
Primary emphasis is on the properties, nomenclature, and reactions of aliphatic compounds. The functional group approach is used. A brief introduction to organic reaction mechanisms and spectroscopy is included. Four lectures, one 3-hr lab per week. Prerequisite: Chem 102

Chem 302 (S) 5 hrs. cr.
Organic Chemistry II *(Writing Intensive)*
A continuation of Chem 301. The functional group approach is continued with the study of aromatic and aliphatic compounds. Emphasis is placed on the properties, nomenclature, reactions, and reaction mechanisms of these compounds. Organic spectroscopy is discussed in detail as related to the identification of functional groups and molecular structures. Four lectures, one 3-hr lab per week. Prerequisite: Chem 301 with a grade of C or better.

Chem 320 (S) 2 hrs. cr.
Computer Applications in Chemistry
An introduction to computer applications and software commonly used for scientific study (and in upper-division courses). Students will become proficient in using the operating system, the local-area network, and spreadsheets and graphing applications, and will be introduced to computer data acquisition and interfacing, internet information sources, and presentation software. This course satisfies the computer literacy requirement for chemistry, biology, and environmental health majors. One lecture, one 3-hr lab per week. Prerequisite: Math 130 (or higher) and Chem 101.

Chem 351 (F) 5 hrs. cr.
Biochemistry *(Writing Intensive)*
Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics, and chemical mechanisms reaction pathways. Four lectures and one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Chem 390 (Demand) 1-2 hrs. cr.
Laboratory in Chemistry
A upper division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 401 (F, Odd) 4 hrs. cr.
Physical Chemistry I
For the first section of the class, a microscopic approach to the understanding of chemical and physical properties of chemical systems is taken. The focus is on quantum theory and molecular spectroscopy. In the last part of the class, a macroscopic approach to the understanding of chemical and physical properties of chemical systems is used. Topics include the laws of thermodynamics and the relationships between the properties of chemical systems at equilibrium. Three lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 280.

Chem 402 (S, Odd) 4 hrs. cr.
Physical Chemistry II
Continuation of Chem 401. A microscopic approach (quantum theory) and the macroscopic approach (thermodynamics) to understanding chemical systems are linked using statistical mechanics. Chemical kinetics is also studied. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 401.

Chem 421 (S, Odd) 5 hrs. cr.
Analytical Chemistry II
Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 201.

Chem 422 (S, Even) 4 hrs. cr.
Advanced Inorganic Chemistry
Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Chem 472 (S, Odd) 4 hrs. cr.
Organic Qualitative Analysis
Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

Chem 496 (F, S) 2 hrs. cr.
Problems in Chemistry *(Writing Intensive)*
A practical research class especially designed for students seeking a bachelor of science in education with a major in chemistry. The class involves laboratory work and a literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as written report on a project from any area

of chemistry. Open to students needing a problems course in chemistry to satisfy Missouri Certification Standards for Secondary Teachers in Chemistry. Students must have a minimum of 20 hours of chemistry and permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 497 (F, S) 1-3 hrs. cr.
Research in Chemistry *(Writing Intensive)*
Independent research techniques; lab work and literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 20 hours of chemistry, 2) junior or senior standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 498 (F, S) 1-3 hrs. cr.
Seminar
For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Chem 499 (F, S) 1-3 hrs. cr.
Independent Study
Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 25 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Enrollment must be approved by adviser, department head and school dean.

Communications

Webster Hall 352, 625-9580

Faculty Moorman - Head, Bryant, Burch, Clark, Coronel, Cramer, Hale, Hou, Karmanova, Korcheck, Larson, Merriam, Müller, Sartori, Schweizer, Stebbins, Talavera, Weber, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have three options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its consequences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain hands-on experience in television, radio and print laboratories. Option III, international communication, permits a student to develop a field of specialty in global aspects of the communication process. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station KGCS-LP. The department also manages KXMS, a 24-hour-a-day classical radio station professionally operated with students and community volunteers. Perhaps the most widely recognized contribution of the communications department is *The Chart*, a student operated college newspaper published once a week. *The Chart* has twice been honored by the Society of Professional Journalists as the best non-daily college newspaper in the nation. Additionally, the department publishes *Crossroads: the Magazine*.

Students also have opportunities to participate in other communications-sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsilon Rho and participate in its state, regional and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and off-campus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision of a faculty member and a representative of the organization providing the intern experience.

The communications curriculum acknowledges the diversity and inter-connectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive world.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

Bachelor of Arts with a Major in Communications

Option I: Speech Communication

		Semester Hours
Core Requirements (p. 33)		**51**
Computer Literacy Requirement:		
Comp 105	**Intro to Micro Use**	**3**
Foreign Language (four courses in one language)		**12**
Communications Requirements		**47**
Comm 101	Introduction to Human Communication	3
Comm 131	Voice and Diction	3
Comm 215	Interpersonal Communication*	3
Comm 300	Organizational Communication*	3
Comm 303	Advanced Public Speaking*	3
Comm 304	Small Group Communication*	3
Comm 420	Mass Communications Theory*	3
Comm 492	Communication Issues*	3
Communication Electives		23
Electives		**11**
		124**

*See Prerequisites
**Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Arts with a Major in Communications

Option II: Mass Communications

		Semester Hours
Core Requirements (p. 33)		**51**
Computer Literacy Requirement:		
Comp 105 Intro to Micro Use		**3**
Foreign Language (four courses in one language)		**12**
Communications Requirements		**47**
Comm 101	Intro to Human Communication	3
Comm 111	Newswriting	3
Comm 215	Interpersonal Communication*	3
Comm 220	Practicum in Communications*	2
(Student must select two different activities.)		
Comm 310	Communication Law	3
Comm 325	Broadcast News Reporting*	3
Comm 330	Advanced Communications Practicum*	1
Comm 420	Mass Communications Theory*	3
Comm 492	Communication Issues*	3
Communication Electives		23
Electives		**11**
		124**

*See Prerequisites
**Must include at least 40 upper division (300-400 level) hours. Course numbered 300 and above in history, political science, sociology, business and psychology are recommended.

Bachelor of Arts with a Major in Communications

Option III: International Communication

		Semester Hours
Core Requirements (p. 33)		**51**
Foreign Language (four courses in one language)		**12**
Communications Requirements		**21**
Comm 101	Intro to Human Communication	3
Comm 215	Interpersonal Communication*	3
Comm 305	Intercultural Communication*	3
Comm 405	Advanced Intercultural Communication*	3
Comm 420	Mass Communications Theory*	3
Comm 492	Communication Issues*	3
Comm 475	Global Broadcasting*	
OR		
Comm 493	International Communication	3
International Studies Requirements		**18**
IntS 201	Introduction to International Studies	3
IntS 301	World Humanities*	3
IntS 302	World Environmental Issues*	3
IntS 303	Contemporary World Civilizations*	3
IntS 304	Comparative Political Economy*	3
IntS 305	International Techno-Trends*/**	3
Electives in communications/approved international courses		**8**
Electives		**14**
		124***

*See Prerequisites
**Meets computer literacy requirement.
***Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Science in Education with a Major in Speech Communication and Theatre

Grades 9-12 Certification
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement:		
Educ 301	**Use of Computer Software in the Classroom**	**3**
Communications Requirements		**20**
Comm 101	Intro to Human Communication	3
Comm 215	Interpersonal Communication**	3
Comm 304	Small Group Communication**	3
Comm 315	Argumentation and Debate**	3
Electives in Communications***		8
Theatre Requirements		**20**
Th 121, 122, 221, or 222	Theatre Laboratory	2
Th 142	Theatre Technology	3
Th 212	Oral Interpretation	3
Th 234	Intro Theatrical Design	3
Th 241	Acting I (WI)	3
Th 331	History of Theatre (WI)	
OR		
Th 332	History of Theatre (WI)	3
Th 351	Directing**	3
Electives		**3**
Education Certification Requirements (p. 161) 40-41******		**39-42**
		133-136

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.
**See Prerequisites
***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.
****Two credit hours are satisfied by Educ 301.

Minor in Mass Communications

		Semester Hours
Comm 111	Newswriting	3
Comm 310	Communication Law	3
Comm 325	Broadcast News Reporting	3
Communications electives*		9
		18

*Electives must be above the 100 level and must be chosen in consultation with an adviser from the communications department. A student may emphasize either the print or broadcast media.

Minor in Speech Communication

		Semester Hours
Comm 101	Intro to Human Comm	3
Comm 215	Interpersonal Comm	3
Comm 303	Advanced Public Speaking	3
Speech Comm Electives numbered 300 and above		9
		18

Electives must be chose in consultation with advisers from the Speech Communication faculty.

Suggested Order of Study

Bachelor of Arts
Major Code 0600
Communications Major
Speech Comm Option

Freshman Year
1st Semester

Course		Hours
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
Psy 120	College Orientation	1
Comm 101	Intro to Human Comm	3
		16

2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Econ 180 Amer Econ Sys]	3
Comm 131	Voice and Diction	3
		14

Sophomore Year
1st Semester

Foreign Language		3
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Comm 215	Interpersonal Comm	3
Comm	Elective	3
Elective		3
		16

2nd Semester

Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Comm	Elective	3
Electives		3
		15

Junior Year
1st Semester

Comp 105	Intro to Micro Use	3
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
Comm 300	Organizational Comm	3
Comm 304	Small Group Comm	3
		16

2nd Semester

CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Psy 100 or Soc 110]	3
CORE	[Hist 110 U.S. History]	3
Comm 303	Adv Public Speaking	3
Comm	Elective (upper division)	3
		17

Senior Year
1st Semester

CORE	[Hist 320 U.S. History]	3
Comm	Electives (upper division)	9
Elective	(upper division)	3
		15

2nd Semester

Comm 420	Mass Comm Theory	3
CORE	[Comm 305 Intercul Comm]	3
Comm	Electives (upper division)	6
Comm 492	Comm Issues	3
		15

Electives should be selected in consultation with the adviser to meet desired career goals.

[Department Recommendations]

Bachelor of Arts
Major Code 0601
Communications Major
Mass Communications Option
Broadcast Emphasis

Freshman Year
1st Semester

Course		Hours
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
Comm 101	Intro to Human Comm	3
Comm 111	Newswriting	3
Psy 120	College Orientation	1
		16

2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Econ 180 Amer Econ Sys]	3
Comm 130	Intro to Broadcasting	3
Comm 131	Voice and Diction	3
		17

Sophomore Year
1st Semester

Foreign Language		3
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Comm 215	Interpersonal Comm	3
Comm 200	Radio Production	
OR		
Comm 201	TV Production	3
Comm 220	Practicum In Comm	1
		14

2nd Semester

Foreign Language		3
CORE	[Humanities and Fine Arts]	3
Comm 200	Radio Production	
OR		
Comm 201	TV Production	3
Comm 220	Practicum in Comm	1
CORE	[Math 110 Intro to Col Math]	3
Electives		3
		16

Junior Year
1st Semester

Comp 105	Intro to Micro Use	3
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
Comm 320	Advanced TV Production	3
Comm 325	Broadcast News Reporting	3
		16

2nd Semester

CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Psy 100 or Soc 110]	3
Comm 301	Media Management	3
Comm 310	Comm Law	3
Comm	Elective	3
		17

Senior Year
1st Semester

CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Comm 330	Adv Comm Practicum	1
CORE	[Comm 305 Intercul Comm]	3
Comm	Elective (upper division)	3
Elective	(upper division)	3
		16

2nd Semester

CORE	[Hist 320 U.S. History]	3
Comm 420	Mass Comm Theory	3
Comm 492	Comm Issues	3
Electives	(upper division)	3
		12

Electives should be chosen in consultation with the adviser to meet desired career goals. Courses in history, business, political science, sociology, psychology, art and theatre all may be appropriate.

[Department Recommendations]

Bachelor of Arts
Major Code 0601
Communications Major
Mass Communications Option
Newspaper Emphasis

Freshman Year
1st Semester

Course		Hours
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
Comm 101	Intro to Human Comm	3
Comm 111	Newswriting	3
Psy 120	College Orientation	1
		16

2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 101 Physical Activity]	1
Comm 220	Practicum in Comm	1
Elective		3
		14

Sophomore Year
1st Semester

Foreign Language		3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Econ 180 Amer Econ Sys]	3
Comm 215	Interpersonal Comm	3
Comm 220	Practicum in Comm	1
Comm	Elective [Comm 332 Feature Writing]	3
		15

2nd Semester

Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Elective	[Comm 333 Copy Editing]	3
		15

Junior Year
1st Semester

Comp 105	Intro to Micro Use	3
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
Comm 325	Broadcast News Reporting	3
Comm 330	Adv Comm Practicum	1
		14

2nd Semester

CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 110 U.S. History]	3
Comm 310	Comm Law	3
Comm	Elective (upper division)	3
		17

Summer

[Comm 345]	[Internship]	8
		8

Senior Year
1st Semester

CORE	[Hist 320 U.S. History]	3
Comm	Electives [upper division]	6
Electives	[upper division]	4
		13

2nd Semester

Comm 420	Mass Comm Theory	3
CORE	[Comm 305 Intercul Comm]	3
Comm 492	Comm Issues	3
Electives	(upper division)	3
		12

Electives in communications should be chosen in consultation with the adviser to meet desired career goals. Other electives should be chosen in an area of minor concentration or in a supportive role to career goals. Courses in history, business, political science, sociology and psychology are strongly recommended.

[Department Recommendations]

Bachelor of Arts
Major Code 0602
Communications Major
International Communication Option

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp 1]	3
CORE	[Math 110 Col Math]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 101 Physical Activity]	1
Foreign Language		3
Comm 101	Intro to Human Comm	3
Psy 120	College Orientation	1
		17

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Art/Mus/Th 110 Apprec.]	3
CORE	[Kine 160 Lifetime Wellness]	2
Foreign Language		3
Elective	[Hist 140 World Civil]	3
		17

Sophomore Year
1st Semester

CORE	[Hist 110 U.S. History]	3
CORE	Phys 100 Fund of Phys Sci]	5
Foreign Language		3
IntS 201	Intro to Int'l Studies	3
Comm 215	Interpersonal Comm	3
		17

2nd Semester

CORE	[Bio 101 General Biology]	4
Foreign Language		3
IntS 304	Comp Political Economy	3
CORE	[Eng 261 Mstrpcs of Wld Lit]	3
CORE	[Econ 201 Prin of Econ]	3
		16

Junior Year
1st Semester

CORE	[Hist 120/320 U.S. History]	3
Foreign Language		3
IntS 301	World Humanities	3
CORE	[Eng 262 Mstrpcs of Wld Lit]	3
Comm 305	Intercultural Comm	3
IntS 303	Contemporary World Civ	3
		18

2nd Semester

CORE	[Psy 100/Soc 110]	3
Foreign Language		3
IntS 302	World Environmental Issues	3
Comm 475	Global Broadcasting	
OR		
Comm 493	International Comm	3
Electives		3
		15

Senior Year
1st Semester

IntS 305	International Techno-Trends	3
Comm 405	Adv Intercultural Comm	3
Comm 420	Mass Comm Theory	3
Comm 492	Communication Issues	3
		12

2nd Semester

IntS 400	Sr Thesis in Int'l Studies	3
Electives		9
		12

[Department Recommendations]

Bachelor of Science in Education
Major Code 0844
Speech-Theatre Major
Grades 7-12 Certification
(Plan B) Single Teaching Field

Freshman Year
1st Semester

Course		Hours
Comm 101	Intro to Human Comm	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Biology]	4
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
		18

2nd Semester

Psy 100	General Psychology	3
Th 122	Theatre Lab	2
Th 142	Theatre Technology	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
		17

Sophomore Year
1st Semester
Take C-Base test.

Comm	Elective	3
Comm 215	Interpersonal Comm	3
Psy 301	Adolescent Psychology	3
Th 241	Acting I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Kine 103 Lifetime Wellness]	2
Educ 200	Intro to Tchr Educ II	1
		18

2nd Semester
Apply for admission to teacher education.

Psy 310	Educational Psychology	2
Educ 302	The Exceptional Child	2
Th 212	Oral Interpretation	3
Th 234	Intro to Theatrical Design	3
CORE	[Humanities and Fine Arts]	3
CORE	[Kine 101 Physical Activity]	1
Educ 301	Use of Computer Software in the Classroom	3
		17

Junior Year
1st Semester
Pass media competencies.

Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching Secondary	2
Comm 304	Small Group Comm	3
Comm 315	Argumentation and Debate	3
Th 331	History of the Theatre	3
Educ 423	Classroom Management	2
		17

2nd Semester

CORE	[Comm 305 Intercul Comm]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Content Area Literacy: Secondary	2
		16

Senior Year
1st Semester
Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 351	*Directing I*	*3*
CORE	[Hist 320 U.S. History]	3
Educ 412 or	Educ 420* or Psy 412	2-3
Electives		6
		14-15

2nd Semester

Educ 402	Foundations of Education (WI)	2
Educ 432	Critical Issues in Education	2
Educ 344	Teaching Speech & Theatre in Sec. Schools	2
Educ 462	Student Teaching	8
		14

[Department Recommendations]
*Must be taken prior to the student teaching semester.

For additional information contact:
Dr. J. R. Moorman
Office: Webster Hall 362
Phone: 625-3105
E-Mail: moorman-j@mail.mssc.edu

Course Descriptions

Comm 100 (F, S) 3 hrs. cr.
Oral Communication
Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

Comm 101 (F, S) 3 hrs. cr.
Introduction to Human Communication
An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for students who choose a major or minor in communication.

Comm 111 (F, S) 3 hrs. cr.
Newswriting
Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, *The Chart,* is required.

Comm 121 (F, S) (Per Sem.) 1 hr. cr.
Forensics Workshop
A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

Comm 130 (S) 3 hrs. cr.
Introduction to Broadcasting
The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions.

Comm 131 (F, S) 3 hrs. cr.
Voice and Diction
Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.

Comm 200 (S) 3 hrs. cr.
Audio Production for Media
Principles and techniques of sound pickup and audio control. Basic techniques of microphone use, control board operation and recording. Projects are taped for analysis and critique. Two hours of lecture, two hours of laboratory per week. Prerequisite: Comm 131.

Comm 201 (F) 3 hrs. cr.
Television Production
Intensive practice in preparation and production of television programs. Camera techniques, floor setups and direction of crews and talent. Interviewing techniques. Development of varied on-the-air skills. Two hrs. lectures, 2 hrs. lab per week.

Comm 205 (S, Even) 3 hrs. cr.
Listening
A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.

Comm 215 (F, S) 3 hrs. cr.
Interpersonal Communication
(Writing Intensive)
Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

Comm 220 (F, S) (Per Sem.) 1 hr. cr.
Practicum in Communications
Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for *The Chart* or *Crossroads,* Comm 111; for KXMS, Comm 200; for TV, Comm 201.

Comm 298 (Demand) 1-8 hrs. cr.
Selected Topics in Communications
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Comm 300 (F) 3 hrs. cr.
Organizational Communication
The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisite: Comm 101 and 215.

Comm 301 (S, Even) 3 hrs. cr.
Media Management
Concepts for managing media organizations, including leadership, motivating employees, community involvement, legal aspects, ethics, audience targeting, policy determination, media organizational patterns, marketing, ownership influences, planning and decision making.

Comm 302 (Demand) 3 hrs. cr.
Photocommunications
Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Comm 303 (S) 3 hrs. cr.
Advanced Public Speaking
Performance-based experiences to promote proficiency in the presentation and criticism of oratory. Emphasis on refining the art of informative and argumentative speechmaking. Prerequisite: Comm 100.

Comm 304 (F) 3 hrs. cr.
Small Group Communication
(Writing Intensive)
Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making and leadership style. Prerequisite: Comm 100.

Comm 305 (F, S) 3 hrs. cr.
Intercultural Communication
(Writing Intensive)
Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Comm 306 (S) 3 hrs. cr.
Persuasion
A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

Comm 307 (F) 3 hrs. cr.
Professional Interviewing
Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills and self-expression. The students will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewed. Prerequisite: Comm 100.

Comm 308 (S, Odd) 3 hrs. cr.
Gender Communication
The pragmatics of gender-related communication refers to the study of the embedded contexts of male-female symbolic interaction. This introduction to the field of gender communication will look at interpersonal, organizational and cultural contexts. Prerequisite: Comm 100.

Comm 309 (Demand) 3 hrs. cr.
World Cinema
Covers the most important facets of cultural literacy in cinematography, one of the essential aspects of modern culture in our century. Includes a very strong writing component.

Comm 310 (S) 3 hrs. cr.
Communication Law
Statutes, administrative regulations and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and broadcasting. Rights, privileges and obligations of the press.

Comm 311 (S) 3 hrs. cr.
Introduction to Public Relations
Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques.

Comm 315 (F, Even) 3 hrs. cr.
Argumentation and Debate
The theory of the modern forms of evidence, evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.

Comm 320 (S) 3 hrs. cr.
Advanced Television Production
Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.

Comm 321 (F, S) (Per Sem.) 1 hr. cr.
Forensics Workshop
Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.

Comm 325 (F) 3 hrs. cr.
Broadcast News Reporting
(Writing Intensive)
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Comm 330 (F, S) 1 hr. cr.
Advanced Communications Practicum
Intensive laboratory experience on the staff of the College newspaper, yearbook, broadcast media or on special communications projects. Students will work for a minimum of 5 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisite: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220 or permission.

Comm 331 (F, S) 2 hrs. cr.
Advanced Newspaper Practicum
Intensive lab experience with opportunities for major leadership position on the staff of the College newspaper. Students will participate fully in the publication of the newspaper working under the supervision of a faculty member. One class session plus a minimum of ten working hours per week are required. Attendance at a weekly newspaper staff meeting also is required. Two hours of credit each term for a maximum of two terms. Prerequisite: Comm 220 and 330.

Comm 333 (S,Odd) 3 hrs. cr.
Copy Editing
An examination of the newspaper copy editor's role and the editing process. Emphasis on spelling, grammar, the Associated Press Stylebook, editing for accuracy and fairness, coaching writers, writing headlines, and designing pages. Two hours laboratory experience on the College newspaper, *The Chart*, each week. Prerequisite: Comm 111.

Comm 335 (F,Even) 3 hrs. cr.
Feature Writing
Finding and writing newspaper features and magazine articles, including profiles, columns, reviews, investigative pieces, travel stories, and history articles. A focus on developing and selling story ideas. Work on the College newspaper, *The Chart*, is required. Prerequisite: Comm 111 or consent of instructor.

Comm 340 (S, Odd) 3 hrs. cr.
Research in Communications
An introduction to research methods in communications. Discussion of these methods as they apply to various communication contexts. An exploration of the nature of research, types of research methodologies and evaluation of research. Prerequisite: Junior or senior standing and Comm 101.

Comm 345 (F, S, Summer) 1-8 hrs. cr.
Internship in Communications
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. Application must be made during the first half of one semester for the following semester. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. Students may repeat the course to a maximum of 8 hrs. of credit. Prerequisite: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites. Guidelines are available in the department's offices and must be followed.

Comm 350 (Demand) 3 hrs. cr.
Sports Writing
The fundamental principles of reporting and interpreting sports, improving writing and editing skills for game coverage and feature stories and further developing and refining those skills necessary for success in the field. Prerequisite: Comm 111.

Comm 355 (S) 3 hrs. cr.
Case Studies in Public Relations
Analysis of public relations practices, including planning, communication, evaluation; management responsibilities. Prerequisite: Comm 311.

Comm 360 (S. Odd) 3 hrs. cr.
Visual Communication: Images With Messages
An examination of visual modes of communication. Topics will include the basic elements of visual messages, the relation of visual communication to language, and the place of images in everyday life. This course is a direct result of the new age in communications initiated and promoted by computer technology.

Comm 400 (S, Even) 3 hrs. cr.
Advanced Organizational Communication
The application of communication theory within the organizational structure is the thrust of the course. Particular attention is focused on analysis and diagnostic capabilities. Communication training and development within an organizational setting is emphasized. Prerequisite: Comm 300.

Comm 401 (S) 3 hrs. cr.
Nonverbal Communication
Study types and effects of various nonverbal communication behaviors and develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.

Comm 405 (S) 3 hrs. cr.
Advanced Intercultural Communication
(Writing Intensive)
An in-depth analysis of variables which influence communication among peoples from different cultures. It will be an application of the intercultural theories and principles learned in the basic Intercultural Communication course. This in-depth analysis of seven cultures, Northern Ireland, American Indians, Germany, China, Japan, India, and the Amish subculture in North America, from a communication perspective will utilize the case study method. Prerequisite: Comm 305.

Comm 411 (S, Odd) 3 hrs. cr.
Political and Social Communication
Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.

Comm 420 (F) 3 hrs. cr.
Mass Communications Theory
Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.

Comm 425 (S, Odd) 3 hrs. cr.
Broadcast Scriptwriting
Methods, style and techniques for preparing scripts for various types of radio and television programs and announcements. Using the computer for typing scripts. Emphasis on promotion commercials, public service announcements, partially, scripted and fully-scripted program formats such as public affairs programs, variety shows, game shows, the documentary and drama. Prerequisite: Comm 111 and 200 or 201 or 325.

Comm 430 (S) 3 hrs. cr.
Advanced Broadcast News Reporting
Theory and practice of producing a regularly scheduled television newscast. Study, criticism and evaluation of broadcast journalism. Six laboratory hours plus one staff meeting per week. Course may be repeated for a maximum of six hours. Prerequisite: Comm 325.

Comm 431 (F,S) 2 hrs. cr.
Electronic Field Production
Planning, designing and executing electronic field productions. This laboratory course is designed to build aesthetic awareness and the technical skills necessary to conceive and develop an idea and communicate that idea to others. Four hours of laboratory weekly. Course may be repeated for a maximum of four hours. Prerequisites: Comm 201.

Comm 450 (S, Even) 3 hrs. cr.
Community Journalism
Examining the nature and role of community journalism in an urbanized society is the thrust of the study. It relies heavily on the expertise of community journalism practitioners as resources of information and research. Experience with small daily and weekly newspapers will be the foundation for developing skills in community journalism. Prerequisite: Comm 111.

Comm 455 (F) 3 hrs. cr.
Writing for Public Relations
Study, analysis and practice in writing for public relations media or for public relations use by media. Includes writing news, publicity, and feature stories as well as effective letter writing, newsletters and brochures. Prerequisite: Comm 311.

Comm 460 (F) 3 hrs. cr.
Global Journalism
Structures, processes, and functions of newspapers around the world. Encompasses such issues as the use of print media between and within nations, censorship and repression, news coverage of war, and U.S. news coverage of international affairs. Prerequisite: Comm 111.

Comm 470 (F,Even) 3 hrs. cr.
New Media Technology
Exploration of developed and developing technologies likely to shape the future of electronic media. New uses of older technologies. Historical development, regulation, and audience effects of these technologies. Students will become aware of critical controversies and projected future developments of technology. Prerequisite: Comm 120, 200, 201, or 310.

Comm 475 (F,Odd) 3 hrs. cr.
Global Broadcasting
Global analysis of domestic and external broadcasting services with emphasis on their political agendas, origins, technologies, and programming. Special attention placed on political, economic, and regulatory constraints. Prerequisite: 60 hours.

Comm 492 (S) 3 hrs. cr.
Communication Issues
Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing, plus 15 hrs. in communications.

Comm 493 (S, Even) 3 hrs. cr.
International Communication
Comparative analysis of media systems throughout the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.

Comm 498 (Demand) 3 hrs. cr.
Special Topics in Speech Communication
For upper-division students. Topics to be announced each time the course is offered.

Comm 498 (Demand) 1-3 hrs. cr.
Special Topics in Mass Communications
For upper-division students. Topics to be announced each time the course is offered.

Comm 499 1-3 hrs. cr.
Independent Study in Speech Communication
An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by adviser, department head and school dean prior to enrollment.

Comm 499 1-3 hrs. cr.
Independent Study in Mass Communications
Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.

English

Hearnes Hall 300, 625-9377

Faculty Simpson - Head, Ackiss, Brown, Couch, Dworkin, Greenlee, Kumbier, Marlowe, Morgan, Rodgers, Saltzman, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent preparation for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching language, composition and literature so that they in turn will prepare their students well for college and for life. Students who wish to obtain certification to teach English/ Language Arts in a middle school should consult the Teacher Education information in the catalog on page 161.

The English department offers an English minor with the choice of two emphases. The first, a minor in English with an Emphasis in Literature, is a traditional English minor that allows students to deepen their knowledge of literature and writing. The minor in English with a Writing Emphasis is designed to encourage students to develop their writing skills and to provide those

students with a way to present their accomplishments to prospective employers and graduate schools. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like *The Winged Lion,* and in projects like English Field Day.

Internships are encouraged for English majors. These internships allow the students practical experience using writing and research skills in a business environment.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page 35 under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 in their freshman year.

Bachelor of Arts with a Major in English

		Semester Hours
Core Requirements (p. 33) 51*		**45**
Foreign Language (four courses in one language)		**12**
English Requirements		**42**
Eng 301	Modern Grammar	
OR		
Eng 400	History of the English Language	3
One course from Eng 216, 310, 313 and 315		3
Eng 202	Writing and Research in English	3
English	Electives**	33
Electives		**29**
		128* **

*Two of the English courses listed under Area 2, sections B and C on page 41 satisfy both six of the 51 hours required for the Core Curriculum and six of the 33 hours of English electives required for the major.

**Must be beyond college composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in English

Grades 9-12 Certification

Plan A One of Two Teaching Fields

		Semester Hours
Core Requirements (p. 33) 51*		**42**
English Requirements		**33**
Eng 301	Modern Grammar	3
Eng 319	Composition for Teachers	3
Eng 330	Literature for Adolescents	3
Eng 400	History of the English Language	3
Eng 216	Creative Writing	
OR		
Eng 202	Writing and Research in English	
OR		
Eng 310	Professional Writing	
OR		
Eng 313	Technical Writing	
OR		
Eng 315	Advanced Essay Writing	3
English Literature**		6
American Literature**		6
World Literature**		3
English Elective***		3
Education Certification Requirements (p. 161)		**37**
Second Teaching Field (some fields exceed 30 hours)		**30**
		142

*Six hours of literature from Area 2, sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond college composition.

Bachelor of Science in Education with a Major in English

Grades 9-12 Certification

Plan B Single Teaching Field

		Semester Hours
Core Requirements (p. 33) 51*		**42**
English Requirements		**42**
Eng 301	Modern Grammar	3
Eng 319	Composition for Teachers	3
Eng 330	Literature for Adolescents	3
Eng 400	History of the English Language	3
Eng 216	Creative Writing	
OR		
Eng 310	Professional Writing	
OR		
Eng 313	Technical Writing	
OR		
Eng 315	Advanced Essay Writing	3
English Literature**		6
American Literature**		6
World Literature**		3
English Electives***		12
Education Certification Requirements (p. 161)		**37**
Electives		**7**
		128

*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond college composition.

Minor in English

(Literature Emphasis)		Semester Hours
Eng 216	Creative Writing (3)	
OR		
Eng 310	Professional Writing (3)	
OR		
Eng 313	Technical Writing (3)	
OR		
Eng 315	Advanced Essay Writing (3)	**3**
Eng courses at the 300-400 level		**9**
Eng Electives (beyond college composition)		**9**
		21*

*Should be chosen in consultation with an adviser in the English department.

Minor in English

(Writing Emphasis) Semester Hours

A: Six hours of college composition

Eng 101	College Comp I	(3)
AND		
Eng 102	College Comp II	(3)
OR		
Eng 111	Advanced College Composition	(6)
		6

B: Twelve hours from the following:

Eng 216	Creative Writing	(3)
Eng 310	Professional Writing	(3)
Eng 313	Technical Writing	(3)
Eng 315	Advanced Essay Writing	(3)
Eng 316	Creative Writing: Poetry	(3)
Eng 317	Creative Writing: Fiction	(3)
		12

C: Three hours in a 300-400 level writing intensive course in the student's major **3**

21

For additional information contact:
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E-Mail: simpson-d@mail.mssc.edu

Suggested Order of Study

Bachelor of Arts
Major Code 1501
English Major

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Foreign Language]	3
CORE	[Math 110 or equivalent]	3
CORE	[Kine 101 Physical Activity]	1
Psy 120	College Orientation	1
		14

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Foreign Language]	3
Eng	Elective	3
CORE	[Hist 110, 120 or 320 U.S. History]	3
		15

Sophomore Year
1st Semester

CORE	[Foreign Language]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Eng 310	Prof Wrtng or Eng Elective	3
		15

2nd Semester

CORE	[Foreign Language]	3
Eng 202	Wrtg & Research in Eng.	3
CORE	[Phys 100 Physical Science]	5
CORE	[Psy 100 or Soc 110]	3
Eng 216 or 315 or English elective		3
		17

Junior Year
1st Semester

Eng	Elective	3
Eng 301	or Eng Elective	3
CORE	[Econ 180 Amer Econ Sys]	3
Electives	[Minor]	9
		18

2nd Semester

Eng 400	History of the Eng Lang	
OR		
Eng	Elective	3
Eng	Elective	3
CORE	[Art 110, Mus 110 or Th 110]	3
Elective	[Minor]	6
		15

Senior Year
1st Semester

Eng	Electives	9
	Elective [Minor]	6
CORE	[International Cultural Stu]	3
		18

2nd Semester

Eng	Electives	9
Elective	[Minor]	9
		18

[Department Recommendations]

Students must choose one course from 216, 310, 313 or 315. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements page 33.

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Bachelor of Science in Education
Major Code 0842
English Major
Grades 9-12 Certification
Plan A One of Two Teaching Fields

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Math 110 or equivalent]	3
CORE	[Kine 101 Physical Activity]	1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys]	3
		17

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1
		17

Sophomore Year
1st Semester
Take C-Base test. Get faculty recommendation, write autobiography, & file admission papers for tentative admission to Teacher Education. If ACT is less than 20, student should retake ACT.

CORE	[Area 2 C: Eng, Amer, World Lit]	
OR		
Eng 150	Intro to Literature	
OR		
Eng 305	Short Story	3
Eng	[Eng, Amer or World Lit]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester
Apply for admission to teacher education during first six weeks of the semester.

Eng	[Eng, Amer or World Lit]	3
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110, 120 or 320]	3
Educ 301*	Computer Software	3
		17

*This is a certification requirement and must be taken by all teacher education students.

Junior Year
Pass media competencies. If recommended by Junior Block instructors and by the teacher education faculty, receive full admission to teacher education.
1st Semester

Eng 301	Modern Grammar	3
Eng 310	Professional Writing	3
Educ 321	Microteaching	2
Educ 329	Ped Theo Meth & Prac	4
Educ 423	Classroom Management	2
English	Elective	3
		17

2nd Semester

Eng 400	Hist of Eng Language	3
Eng 216	or 315	3
Eng 330	Lit for Adolescents	3
Eng	[English,American,or Wld Lit]	3
Educ 422*	Content Area Literacy: Secon.	2
		15

*Can be taken concurrent with Junior Block or any following semester except for Professional Block.

Senior Year
Apply for admission to student teaching. All course work must be completed except for professional semester courses.
1st Semester

Eng	Electives	3
Elective	(General)	3
Eng 319	Comp for Teachers	3
CORE	[Intern'l Cultural Stu]	3
		12

2nd Semester

Educ 332	Tching Eng in Sec Sch	2
Educ 462	Student Teaching	8
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curriculum Dev (2)	
OR		
Educ 420*	Intro to Counseling (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
		16-17

[Department Recommendations]

*Offered at night only. Must be taken the semester prior to student teaching.

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Bachelor of Science in Education
English Major
Plan B Single Teaching Field
Grades 9-12 Certification

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120]	3
CORE	[Math 110 or equiv]	3
CORE	[Kine 101 Physical Activity]	1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys]	3
		17

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[PSc 120 Gov't: U.S./St/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1
		17

Sophomore Year
1st Semester
Take C-Base test. Get faculty recommendation, write autobiography, & file admission papers for tentative admission to Teacher Education. If ACT iss less than 20, student should retake ACT.

CORE	[Area 2-C: Eng/Amer/Wld Lit]	3
Eng	[Eng, Amer or World Lit]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester
Apply for admission to teacher education during first six weeks of the semester.

Eng	[Eng, Amer or World Lit]	3
Psy 302	Exceptional Child	2
Psy 310	Educ Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110, 120 or 320]	3
Educ 301*	Computer Software	3
		17

*This is a certification requirement and must be taken by all teacher education students.

Junior Year
Pass media competencies. If recommended by Junior Block instructors and by the teacher education faculty, receive full admisssion to teacher education.
1st Semester

Eng 301	Modern Grammar	3
Eng 310	Professional Writing	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Elective	(General)	3
		17

2nd Semester

Eng 400	History of Eng Lang	3
Eng 216	or 315 or Eng Elective	3
Eng 330	Lit for Adolescents	3
Eng	Eng, Amer or World Lit	3
Educ 422*	Content Area Literacy: Sec.	3
		15

*Can be taken concurrent with Junior Block or any following semester except for Professional Block.

Senior Year
Apply for admission to student teaching. All course work must be completed except for Professional Semester courses.
1st Semester

Eng	Electives	9
Eng 319	Comp for Teachers	3
CORE	[International Cultural Stu]	3
Elective	(General)	3
		18

2nd Semester

Educ 332	Tching Eng in Sec School	2
Educ 462	Student Teaching	8
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curriculum Dev (2)	
OR		
Educ 420*	Intro to Counseling (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
		16-17

[Department Recommendations]

*Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:
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Course Descriptions

Eng 080 3 hrs. cr.
Basic Composition
Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English 101. No credit toward baccalaureate degree.

Eng 101 3 hrs. cr.
College Composition I *(Writing Intensive)*
An introduction to the principles of college-level writing and critical thinking based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Area 1 Core Curriculum requirement.)

Eng 102 3 hrs. cr.
College Composition II *(Writing Intensive)*
Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Area 1 Core Curriculum requirement.)

Eng 111 3 hrs. cr.
Advanced College Composition
(Writing Intensive)
For students whose placement scores demonstrate exceptional proficiency. With a grade of 'C' or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six hour composition requirement. However, students receiving a D in English 111 must take English 102.

Eng 150 3 hrs. cr.
Introduction to Literature
An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama. Prerequsite: Eng 101 (Meets Area 2C Core Curriculum requirement.)

Eng 160 3 hrs. cr.
Introduction to Film Studies
An introduction to the study of film as a literary genre and art form. Prerequsite: Eng 101. Two hrs. lecture, 2 hrs. lab.

Eng 202 3 hrs. cr.
Writing and Research in English
(Writing Intensive)
An intermediate course for Engish majors in the various types of writing in the discipline; an introduction to the aims and methods of scholarship in the discipline. Prerequsite: Eng 101.

Eng 216 3 hrs. cr.
Creative Writing *(Writing Intensive)*
Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

Eng 261 3 hrs. cr.
Masterpieces of World Literature
Selected literature from the ancient world through the Renaissance, excluding British and American literature. Prerequsite: Eng 101. (Meets Area 4B Core Curriculum requirement.)

Eng 262 3 hrs. cr.
Masterpieces of World Literature
Selected literature from the Renaissance to the present, excluding British and American literature. Prerequsite: Eng 101. (Meets Area 2B Core Curriculum requirements.)

Eng 271 3 hrs. cr.
English Literature
Survey of English literature from its beginnings through the eighteenth century. Prerequsite: Eng 101. (Meets Area 2B Core Curriculum requirement.)

Eng 272 3 hrs. cr.
English Literature
Survey of English literature from the Romantic Movement to the present. Prerequsite: Eng 101. (Meets Area 2B Core Curriculum requirement.)

Eng 281 3 hrs. cr.
American Literature
A survey of American literature from its beginning to the Civil War. Prerequsite: Eng 101. (Meets Area 2B Core Curriculum requirement.)

Eng 282 3 hrs. cr.
American Literature
A survey of American literature from the Civil War to the present. Prerequsite: Eng 101. (Meets Area 2B Core Curriculum requirements.)

Eng 298 (Demand) 3 hrs. cr.
Explorations in Literature
Studies in a variety of literary subjects. Topic open. Prerequsite: Eng 101.

Eng 301 (F) 3 hrs. cr.
Modern Grammar
Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications. Prerequsite: Eng 101.

Eng 305 3 hrs. cr.
The Short Story
An indepth study of the short story with representative writers from throughout the world. Prerequsite: Eng 102. (Meets Area 2C Core Curriculum requirement.)

Eng 310 3 hrs. cr.
Professional Writing *(Writing Intensive)*
An advanced course focused on the writing demands of professional occupations. Prerequisite: 6 hrs. composition.

Eng 313 3 hrs. cr.
Technical Writing *(Writing Intensive)*
An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upperlevel students preparing for careers in science, technology or social science. Prerequisite: Six hours of composition.

Eng 315 3 hrs. cr.
Advanced Essay Writing *(Writing Intensive)*
An advanced course in the principles of prose style, focusing on the essay. Recommended for all students, especially those entering the professions or aspiring to become writers. Prerequisite: 6 hrs. composition.

Eng 316 3 hrs. cr.
Creative Writing: Poetry *(Writing Intensive)*
An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: Eng 216.

Eng 317 3 hrs. cr.
Creative Writing: Fiction *(Writing Intensive)*
An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: Eng 216

Eng 319 (F) 3 hrs. cr.
Composition for Teachers *(Writing Intensive)*
For prospective teachers of English. Composition theory and pedagogy.

Eng 325 3 hrs. cr.
Children's Literature *(Writing Intensive)*
A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major.

Eng 330 3 hrs. cr.
Literature for Adolescents *(Writing Intensive)*
An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.

Eng 335 3 hrs. cr.
Women's Literature
A study of the literary tradition of women authors writing in English.

Eng 340 3 hrs. cr.
Black American Literature
Writings by Black Americans from the Colonial Period to the present.

Eng 345 3 hrs. cr.
The American Novel
Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.

Eng 350 3 hrs. cr.
Recent American Fiction
The major movements in American fiction since World War II.

Eng 355 3 hrs. cr.
Arthurian Literature
Emphasizes the origins and development of Arthurian legends in the Middle Ages; studies treatment of Arthurian literature in modern times. Works read in modern English translation.

Eng 360 3 hrs. cr.
Modern World Drama
World drama from Ibsen to the present. Selections from European, British, American, Asian and African playwrights.

Eng 370 3 hrs. cr.
Twentieth Century Poetry
British and American poetry from Yeats to the present.

Eng 380 3 hrs. cr.
The English Novel
Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

Eng 385 3 hrs. cr.
Continental Novel
Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky, and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Eng 390 3 hrs. cr.
Comparative Epic
Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures.

Eng 391 3 hrs. cr.
Comparative Lyric Poetry
Intensive study of a range of European and non-European lyric poetry in translation.

Eng 400 (S) 3 hrs. cr.
History of the English Language
The ancestors of English and the effect of other languages, peoples, and cultures upon the development of English. Phonology, morphology, syntax, and usage of the language throughout its history.

Eng 410 3 hrs. cr.
Medieval English Literature
Literature of England from the 11th through the 15th centuries. Emphasis on the works of Chaucer.

Eng 415 3 hrs. cr.
Renaissance Prose and Poetry
English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, and Milton.

Eng 420 3 hrs. cr.
English Drama to 1800
English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, and Congreve.

Eng 425 3 hrs. cr.
Restoration and Eighteenth Century English Literature
Poetry and prose in England from 1660-1798, representing Neoclassicism and the Enlightenment. Focus on major figures such as Dryden, Pope, Swift, Johnson, and Burns.

Eng 430 3 hrs. cr.
The Romantic Period
English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

Eng 435 3 hrs. cr.
The Victorian Period
English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.

Eng 450 (F) 3 hrs. cr.
Shakespeare
Selected comedies, histories, tragedies, romances, and poems.

Eng 455 3 hrs. cr.
English Literature: Major Figures
An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.

Eng 460 3 hrs. cr.
American Literature: Major Figures
An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

Eng 480 3 hrs. cr.
Literary Criticism
Major schools of criticism and the major representatives of each school.

Eng 491 1-8 hrs. cr.
Internship in English
Practical experience using writing skills in a professional environment. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating facility. No more than three hours may be counted toward a major or minor. Prerequisites: Advanced standing with a GPA of 3.0 and approval of a departmental committee.

Eng 498 3 hrs. cr.
Seminar in Literature
For advanced English majors or by permission of department head. Topic open.

Eng 499 1-3 hrs. cr.
Independent Study
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.

Environmental Health

Reynolds Hall 320, 625-9731

Faculty Adams - Coordinator, Fletcher, Knight

The College offers the four-year bachelor of science in environmental health with three options. The program is fully accredited by the National Environmental Health Association (NEHA).

Bachelor of Science

Option I: Water and Wastewater Management

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of the Water and Wastewater program at Crowder College, Neosho, Mo., or the Environmental Water Technology program, with emphasis in water and wastewater, at Fort Scott Community College at Fort Scott, Ks. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II: Environmental Health and Safety

This bachelor of science degree requires three years of study at Southern preceded or followed by successful completion of the Environmental Health Program at Maple Woods Community College in Kansas City, Mo. or Northwest Arkansas Community College in Bentonville, Ark. At Southern the student pays the same fees as any other student if residency requirements have been met. Courses offered by distance learning modes may require an additional fee.

Option III: Community and Occupational Health

This bachelor of science degree requires four complete academic years at Missouri Southern, including an internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

Bachelor of Science Environmental Health Major (Major Code 1299)

		Semester Hours
Core Requirements (p. 33) 51*		**39**
Biology and Environmental Health Core		**30-31**
Bio 101	General Biology	4
Bio 231	General & Medical Microbiology	5
Bio 290	Research Methods in Biology	2
Bio 221	Human Anat & Phys (5)	
OR		
Bio 431	Animal Physiology (4)	4-5
Eht 312	Environmental Biology	4
Eht 370	Environmental Health	3
Eht 371	Toxicology	2
Eht 372	Environmental Reg and Program Adm	2
Eht 380	Epidemiology	3
Eht 381	Risk Assess & Comm	1
Mathematics and Physical Science Requirements		**30**
Math 140	College Algebra and Trigonometry	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 300	Introduction to Modern Organic Chemistry	5
Phys 151	Elementary College Physics	5
College Computer Requirement		**2-3**
Bio 303	Computer Applications in Biology (2)	
OR		
Approved Computer Course (3)		2-3

Option I
Water and Wastewater Management

Water and Wastewater Technical School	30
Upper Division Hours Awarded	20
	132-133

Option II
Environmental Health and Safety

Environmental Health and Safety		25
Upper Division Hours Awarded for Environmental Health and Safety		17
Eht 450	Internship in Environmental Health	5
		132-133

Option III
Community and Occupational Health

Select approved courses to complete a 30 hr. block of which 20 hours must be Eht courses and include Eht 377, Eht 378, and Eht 450.		30
Bio 240	Radiation Biology	3
Bio 361	Parasitology	4
Bio 402	General Ecology	4
Bio 481	Aquatic Ecology	4
Eht 298	Selected Topics in Environmental Health	1-8
Eht 300	Environmental Geology	4
Eht 352	International Environmental Health	3
Eht 373	Solid Waste Manage	2
Eht 375	Vector Control	2
Eht 376	Environmental Protection	4
Eht 377	Community Sanitation	4
Eht 378	Occupational Hlth & Safety	3
Eht 450	Internship in Environmental Health	1-8
Eht 498	Seminar in Environmental Health	1-3
Eht 499	Problems in Environmental Health	1-3
		128-129

Majors satisfy the Writing Intensive (WI) requirement by completing ENG 101 and 102 (or their equivalent) and three WI classes in environmental health, biology or a supporting area. See page 54 for Writing Intensive requirements. Math 130 + Math 112 is equivalent to Math 140.

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

Suggested Order of Study

Bachelor of Science Degree
Major Code 1299
Environmental Health Major

Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[American Cultural Stu]	3
CORE	[Eng 101 Comp I]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Psy 120 College Orient]	1
Math 140	College Algebra & Trig	5
		17

2nd Semester

CORE	[Behavioral Science]	3
CORE	[Eng 102 Comp II]	3
CORE	[American Cultural Studies]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Humanities and Fine Arts]	3
		17

Sophomore Year

1st Semester

CORE	[American Cultural Studies]	3
Bio 231	Gen/Med Microbio (Bio 101)	5
Chem 101	Gen Chemistry I (Math 140)	5
CORE	[Comm 100 Oral Comm]	3
		16

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Bio 290	Res Meth in Bio (Bio 101,Math 140)	2
Bio 303	Comp Appl in Bio (Bio 101)	
OR		
Approved computer course		2-3
CORE	[American Cultural Stu]	3
Phy 151	Elem Col Phy (Math 140)	5
		16-17

Summer Session

CORE	[International Cultural Stu]	3
CORE	[American Cultural Stu]	3
		6

Junior Year

1st Semester

Bio 221	Hum Anat & Phys (consent)	
OR		
Bio 431	Animal Phys (Bio 331)	4-5
Eht 312	Environmental Biology (Bio 101)	4
Eht 381	Risk Assessment	1
CORE	[Humanities & Fine Arts]	3
		12-13

2nd Semester

Chem 300	Intro to Mod Org Chem (Chem 102)	5
Eht 372	Env Reg & Pro Adm (Eht 312 & 370)	2
Eht 370	Environmental Health (Bio 231)	3
Eht 371	Toxicology (Bio 221)	2
Eht 380	Epidemiology (Bio 290)	3
		15

Senior Year

Option I:	**Water and Wastewater Management**	**30**
(30 hours; 20 upper division awarded)		

Option II: Environmental Health and Safety

Environmental Health and Safety		25
Upper Division Hours Awarded for Environmental Health and Safety		17
Eht 450	Internship in Environmental Health	5

Option III: Community and Occupational Health

Select approved courses to complete a 30 hr. block from the following. The block must have 20 hours of Environmental Health courses and include Eht 377, 378, and 450.

Bio 240	Radiation Biology (Bio 221)	3
Bio 361	Parasitology (Bio 122)	4
Bio 402	General Ecology (Consent)	4
Bio 481	Aquatic Ecology (Consent)	4
Eht 298	Sel Topics in Envir Health (Bio 101, 112 & 122)	1-8
Eht 300	Environmental Geology (Phys 100)	4
Eht 352	International Environmental Health	3
Eht 373	Solid Waste Manage (Eht 312 & 370)	3
Eht 375	Vector Control (Eht 312 & 370)	2
Eht 376	Environmental Protection	4
Eht 377	Community Sanitation (Eht 370)	4
Eht 378	Occupational Hlth & Safety	3
Eht 450	Internship in Environmental Health (consent)	1-8
Eht 498	Seminar in Environmental Health (consent)	1-3
Eht 499	Problems in Environmental Health (consent)	1-3
		128-129

[Departmental Recommendations]
(Prerequisites)
Program must satisfy Writing Intensive (WI) requirements page 54.

For additional information contact:
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Mr. Dewayne Knight
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Phone: 625-3179
E-Mail: knight-d@mail.mssc.edu

Course Descriptions

Eht 298 (Demand) 1-8 hrs. cr.
Selected Topics in Environmental Health
Special topics in environmental health not normally included in another course. Prerequisite: Permission.

Eht 300 (Demand) 4 hrs. cr.
Environmental Geology
Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisites Phys 100 or 151 (Double listed in geology.)

Eht 312 (F) 4 hrs. cr.
Environmental Biology *(Writing Intensive)*
Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 112 and 122 or permission. (Double listed in biology.)

Eht 352 (Demand) 3 hrs. cr.
Environmental Health an International Perspective
International Environmental Health is an in-dept study of environmental health issues in countries other than the United States of America. This course will be approached by selecting a country to be studied, reviewing the environmental issues pertinent to the selected country. Environmental health issues, which are common to many countries, as well as issues which are unique to the selected country will be studied. The environmental health issues of the selected country will be studied in the classroom and followed up with an extended field trip usually lasting approximately two weeks. Prerequisites: Eht 312, Eht 370 or permission of the instructor.

Eht 370 (Demand) 3 hrs. cr.
Environmental Health
Contemporary heatlh problems and public heath protection measures, including public health disease prevention, and environmental health hazards. Three lectures per week. Prerequisite: Bio 231. (Double listed in biology & environmental health.)

Eht 371 (S) 2 hrs. cr.
Toxicology
An introduction to toxicants which threaten the health of humans. Three lectures per week. Prerequisite: Bio 221.

Eht 372 (F, Odd) 2 hrs. cr.
Environmental Regulations and Program Administrations
Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: Eht 312 and 370 (Bio 312 and 370).

Eht 373 (S, Even) 2 hrs. cr.
Solid Waste Management
Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequisite: Eht 312 and 370 (Bio 312 and 370).

Eht 375 (S, Even) 2 hrs. cr.
Vector Control
Identification and control of organisms which serve as reservoirs and vectors of diseases. One lecture, one 2-hr. lab per week. Prerequisite: Eht 312 and 370 (Bio 312 and 370) .

Eht 376 (Fall) 4 hrs. cr.
Environmental Protection
This course will provide information on soils, water quality, water treatment systems, wastewater treatment systems, air quality and air pollution control necessary for the environmental quality practitioner in government or industry. Three hours of lecture and two hours of field and/or laboratory activities are required per week. Prerequisite: Bio 101 or permission of instructor. Bio/Eht 312 is recommended.

Eht 377 (S, Odd) 4 hrs. cr.
Community Sanitation
Introduction to concepts, principles and methods generally useful in performance of duties of city and county health department personnel. Three lectures, one 2-hr. lab per week. Prerequisite: Eht 312 and 370 (Bio 312 and 370).

Eht 378 (S, Even) 3 hrs. cr.
Occupational Health and Safety
An introduction to the concepts, principles, and methods generally employed by industrial health and safety officers in the performance of the duties. Prerequisite: Eht 372.

Eht 380 (S, Odd) 3 hrs. cr.
Epidemiology
Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290. (Double listed in biology.)

Eht 381 (Demand) 1 hr. cr.
Risk Assessment and Communication
Introduction to the concepts, principles, and methods generally useful in assessing risk and communicating the levels of risk to workers and the public. Prerequisite: Eht 312 (Bio 312).

Eht 450 (F, S) 1-8 hrs. cr.
Internship in Environmental Health
Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.

Eht 498 (Demand) 1-3 hrs. cr.
Seminar in Environmental Health
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisites: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission.

Eht 499 (Demand) 1-3 hrs. cr.
Problems in Environmental Health
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

Ecolonomics

Certificate Program in Ecolonomics

Sustainability refers to practices that maintain natural resources at least at their present level. Ecolonomics, a phrase coined by MSSC alumnus Dennis Weaver, is the promotion of sustainable alternatives that are economically profitable. The certificate program in Ecolonomics develops an understanding of these issues through the following courses:

Econ 180	The American Economic System	
OR		
Econ 201	Principles of Economics (Macro)	3
Bio/Eht 312	Environmental Biology (Writing Intensive)	4
Psc 421	Public Administration	3
Mids 402	Future Environments: An Introduction to Sustainability	3
		13

For additional information contact:
Dr. John Messick
Office: Reynolds Hall 215
Phone: 625-9617
E-mail: messick-j@mail.mssc.edu

Course Descriptions

MIDS 402 (Demand) 3 cr. hrs.
This capstone to the Ecolonomics Certificate applies the principles of ecology, economics and public administration to sustainability, the discipline that promotes a quality life and sound economy in an environment which maintains natural resources. The course emphasizes practical applications. Prerequisites: Bio/Eht 312: Environmental Biology, Econ 180: The American Economic System or Econ 201: Principles of Economics (Macro), and PSc 421: Public Administration.

Foreign Languages and Literatures

Webster Hall 352, 625-9580

Faculty Moorman - Head, Burch, Coronel, Cramer, Hou, Karmanova, Korcheck, Muller, Sartori, Schweizer, Talavera, Weber

The foreign language section of the department of communications offers the bachelor of arts degree with **majors** in French, German, and Spanish. **Minors** in Chinese, French, German, Japanese, Russian, and Spanish are available. The department also offers the bachelor of science in education degree in French, German, or Spanish, with the chosen language as a single teaching field or as one of two teaching fields.

For the degrees in French or German, there is a **residency requirement** of at least one month of study or work in a French- or German-speaking country or participation in a French or German immersion program. For the degrees in Spanish such residency or immersion is strongly advised. Opportunities for such programs exist through College-sponsored programs here and abroad, through the College's membership in the International Student Exchange Program (ISEP) and through internships. The faculty provide close guidance to students in planning such experiences. Through the Institute of International Studies students may be eligible for grants and/or scholarships to assist in financing these experiences.

Study abroad programs are open to all students, regardless of major, and are also available in Chinese, Japanese, and Russian.

All language majors and minors require a demonstration of oral and written **proficiency** through examinations. Guidelines for these examinations are available in the department of communications.

The department also allows for students to demonstrate proficiency in language gained through previous experience and training, and students may receive academic credit for such experience through a program of **"testing out."** A student may test out of specific language courses by making appropriate arrangements with a faculty member in the specific language to be tested. The guidelines for testing out of a course require that the student be enrolled in the College at the time of the examination and be working toward a degree at Missouri Southern State College. The student may not have taken an examination over the course within the preceding six months and may not have received academic credit in a more advanced course in the same field. The examination may not be used to replace a previously earned grade.

Placement in foreign language courses is on the basis of prior experience and training, and students are informed at the time of placement about "testing out" procedures. Students with no prior experience in the chosen language should enroll in a 101 course in that language. Students with only **one year** of high school foreign language courses should also enroll in a 101 class; however, it is possible that after one or two weeks of classes the student will be asked to move to a higher level class. Students who had **two years** of a language in high school should enroll in a 102 course of the same language if they received at least a "B" in the high school language. Students who had **three or four years** of a high school foreign language should enroll in a 203 course, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after assessment is made of their skills in class. Students with **five years or more** of a language will need to consult with a faculty member in the specific language. In all cases, students must arrange with their instructors to "test out" of lower-numbered courses to receive credit and must do so prior to the date announced by the department.

Bachelor of Arts with a Major in French

	Semester Hours	
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement:		
Comp 105 Intro to Micro Use		**3**
French Requirements		**33**
Fren 101, 102, 203, 204**	12	
Language courses (300 or above)***	6	
Culture courses (300 or above)***	6	
Literature courses (300 or above)***	6	
Electives (300 or above)***	3	
Additional Requirements****		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Electives		**40**
		124+

*Three hours of foreign language fulfill Area 5 requirement of the Core Curriculum.

**Fren 101, 102, 203, 204 fulfill the 12-hour foreign language requirement for the B.A. degree.

***These courses in French must be at the 300-400 level and must be chosen in consultation with the student's adviser.

****Additional requirements for the French major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of communications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.
2. A period of at least one month of residency in a French-speaking country or in a French immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major or may count as general electives.

+Must include 40 upper-division hours.

Bachelor of Science in Education with a Major in French

Grades K-12 Certification
Plan A One of Two Teaching Fields

	Semester Hours	
Core Requirements (p. 33) 51*		**45**
Computer literacy Requirement:		
Educ 301 Use of Computer Software in the Classroom		**3**
French Requirements		**33**
Fren 101, 102, 203, 204	12	
Students will select at least 21 hours at the 300-400 level according to the following distribution:		
Language courses (300 or above)**	6	
Culture courses (300 or above)**	6	
Literature courses (300 or above)**	6	
Electives (300 or above)**	3	
Additional Requirements***		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Education Certification Requirements (p. 161)		**39-42**
Second Teaching Field (some fields exceed 30 hrs.)		**30**
		150-153**

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum. Three hours of foreign language fulfill Area 5 requirement.

**These courses in French must be at the 300-400 level and must be chosen in consultation with the student's adviser.

***Additional requirements for the French major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of communications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.
2. A period of at least one month of residency in a French-speaking country or in a French immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major field.
3. Students must complete the course work designated by the department of education and must meet current Missouri state certification requirements. New requirements are under consideration and will define certification in terms of specific competencies that the student can demonstrate.

****A minimum of 124 hours is required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 124.

Bachelor of Science in Education with a Major in French

Grades K-12 Certification
Plan B Single Teaching Field

	Semester Hours	
Core Requirements (p. 33) 51*		**45**
Computer literacy Requirement:		
Educ 301 Use of Computer Software in the Classroom		**3**
French Requirements		**33**
Fren 101, 102, 203, 204	12	
Students will select at least 21 hours At the 300-400 level according to the following distribution:		
Language courses (300 or above)**	6	
Culture courses (300 or above)**	6	
Literature courses (300 or above)**	6	
Electives (300 or above)**	3	
Additional Requirements***		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Education Certification Requirements (p. 161)		**39-42**
General Electives		**4**
		124-127

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum. Three hours of foreign language fulfill Area 5 requirement.

**These courses in French must be at the 300-400 level and must be chosen in consultation with the student's adviser.

***Additional requirements for the French major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of com-

munications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.

2. A period of at least one month of residency in a French-speaking country or in a French immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major field.
3. Students must complete the course work designated by the department of education and must meet current Missouri state certification requirements. New requirements are under consideration and will define certification in terms of specific competencies that the student can demonstrate.

Bachelor of Arts with a Major in German

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement:		
Comp 105 Intro to Micro Use		**3**
German Requirements		**33**
Ger 101, 102, 203, 204**	12	
Language courses (300 or above)***	6	
Culture courses (300 or above)***	6	
Literature courses (300 or above)***	6	
Electives (300 or above)***	3	
Additional Requirements****		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Electives		**40**
		124+

*Three hours of foreign language fulfill Area 5 requirement of the Core Curriculum.

**Ger 101, 102, 203, 204 fulfill the 12-hour foreign language requirement for the B.A. degree.

***These courses in German must be at the 300-400 level and must be chosen in consultation with the student's adviser.

****Additional requirements for the German major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of communications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.
2. A period of at least one month of residency in a German-speaking country or in a German immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major or may count as general electives.

+Must include 40 upper-division hours.

Bachelor of Science in Education with a Major in German

Grades K-12 Certification

Plan A One of Two Teaching Fields

		Semester Hours
Core Requirements (p. 33) 51*		**45**
Computer literacy Requirement:		
Educ 301 Use of Computer Software in the Classroom		**3**
German Requirements		**33**
Ger 101, 102, 203, 204	12	
Students will select at least 21 hours At the 300-400 level according to the following distribution:		
Language courses (300 or above)**	6	
Culture courses (300 or above)**	6	
Literature courses (300 or above)**	6	
Electives (300 or above)**	3	
Additional Requirements***		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Education Certification Requirements (p. 161)		**39-42**
Second Teaching Field (some fields exceed 30 hrs.)		**30**
		150-153**

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum. Three hours of foreign language fulfill Area 5 requirement.

**These courses in German must be at the 300-400 level and must be chosen in consultation with the student's adviser.

***Additional requirements for the German major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of communications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.
2. A period of at least one month of residency in a German-speaking country or in a German immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major field.
3. Students must complete the course work designated by the department of education and must meet current Missouri state certification requirements. New requirements are under consideration and will define certification in terms of specific competencies that the student can demonstrate.

****A minimum of 124 hours is required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 124.

Bachelor of Science in Education with a Major in German

Grades K-12 Certification
Plan B Single Teaching Field

		Semester Hours
Core Requirements (p. 33) 51*		**45**
Computer literacy Requirement:		
Educ 301	**Use of Computer Software in the Classroom**	**3**
German Requirements		**33**
Ger 101, 102, 203, 204		12
Students will select at least 21 hours At the 300-400 level according to the following distribution:		
Language courses (300 or above)**		6
Culture courses (300 or above)**		6
Literature courses (300 or above)**		6
Electives (300 or above)**		3
Additional Requirements***		
1. Proficiency examinations		
2. Residency abroad (See explanations below)		
Education Certification Requirements (p. 161)		**39-42**
General Electives		**4**
		124-127

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum. Three hours of foreign language fulfill Area 5 requirement.
**These courses in German must be at the 300-400 level and must be chosen in consultation with the student's adviser.
***Additional requirements for the German major are:

1. Successful completion of tests or oral and written proficiency. Guidelines are available in the department of communications. These guidelines indicate the general areas covered by the proficiency tests, and the dates on which tests are scheduled for the academic year. Students will normally take the tests for diagnostic purposes during the second semester of the junior year and may repeat the tests during their senior year.
2. A period of at least one month of residency in a German-speaking country or in a German immersion program. Students may participate in a college-sponsored summer program, an ISEP semester or year abroad, a program of another accredited college, an internship, or other approved activity. All language students are urged to work closely with the Institute of International Studies to explore available programs and financial resources. Students with special circumstances may petition to have an alternative immersion experience approved for this requirement. Credit earned may be applied to the major field.
3. Students must complete the course work designated by the department of education and must meet current Missouri state certification requirements. New requirements are under consideration and will define certification in terms of specific competencies that the student can demonstrate.

Bachelor of Arts with a Major in Spanish

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement:		
Comp 105 Intro to Micro Use		**3**
Foreign Language		**12**
Spanish Requirements		**33**
Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	
OR		
Span 305	Advanced Conversation	3
Span 300	Spanish Composition And Syntax	3
Span 302	Introduction to Hispanic Literature	3
Span 306	Introduction to Spanish Civilization	
OR		
Span 307	Introduction to Latin American Civilization	3
Span 321	Peninsular Literature (El Cid to Calderon)	
OR		
Span 322	Peninsular Literature (Romantics to Present)	3
Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3
Span	Electives chosen with approval of Spanish adviser above the 204 level.**	12
Electives		**28**
		124* **

*Three hours of foreign language fulfill Area 5 requirement of the Core Curriculum.
**Span 204 may satisfy both the foreign language requirement and the Spanish requirement. Students will be responsible for taking 124 hours.
***Must include at least 40 upper-division hours.

Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification
Plan A One of Two Teaching Fields

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer literacy Requirement:		
Educ 301	**Use of Computer Software in the Classroom**	**3**
Spanish Requirements**		**36**
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	3
Span 300	Spanish Composition and Syntax	3
Span 302	Introduction to Hispanic Literature	3
Span 305	Advanced Conversation	3
Span 306	Introduction to Spanish Civilization	3
Span 307	Introduction to Latin American Civilization	3
Span 320	Advanced Spanish Composition	3
Span 321	Peninsular Literature (El Cid to Calderon)	
OR		
Span 322	Peninsular Literature (Romantics to Present)	
OR		
Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3
Education Certification Requirements (p. 161)		**39-42**
Second Teaching Field (some fields exceed 30 hrs.)		**30**
		156-159* **

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum.
**A candidate for a degree under Plan A must meet with the Spanish faculty for three orientation sessions at the time of declaring a Spanish education major. These sessions will cover requirements of the program, and a mentor will be assigned the student.
***A minimum of 124 hours is required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 124.

Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33)	**51***	**48**
Computer Literacy Requirement:		
Educ 301	**Use of Computer Software in the Classroom**	**3**
Spanish Requirements**		**39**
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	3
Span 300	Spanish Composition and Syntax	3
Span 302	Introduction to Hispanic Literature	3
Span 305	Advanced Conversation	3
Span 306	Introduction to Spanish Civilization	3
Span 307	Introduction to Latin American Civilization	3
Span 320	Advanced Spanish Composition	3
Span 321	Peninsular Literature (El Cid to Calderon)	
OR		
Span 322	Peninsular Literature (Romantics to Present)	3
Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3
Education Certification Requirements (p. 161)		**39-42**
		129-132

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum.
**A candidate for a degree under Plan B must meet with the Spanish faculty for three orientation sessions at the time of declaring a Spanish education major. These sessions will cover requirements of the program, and a mentor will be assigned the student.

Minor in Chinese

A minor in Chinese requires 18 hours of courses in Chinese of which six must be upper-division.

Minor in French

A minor in French requires 18 hours of courses in French of which six must be upper division.

Minor in German

A minor in German requires 18 hours of courses in German of which six must be upper division.

Minor in Japanese

A minor in Japanese requires 18 hours of courses in Japanese of which six must be upper division.

Minor in Russian

A minor in Russian requires 18 hours of courses in Russian of which six must be upper division.

Minor in Spanish

A minor in Spanish requires the student to complete 12 hours of approved courses beyond Span 204 or the equivalent level of proficiency. Courses for the minor must include one class at the 300 level or above in each of the following four areas: Civilization, conversation, literature, and one area of choice.

Suggested Order of Study

Bachelor of Arts
Major Code 1102
French Major

Freshman Year
1st Semester

Course		Hours
Fren 101	Beginning French I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		18

2nd Semester

Fren 102	Beginning French II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year
1st Semester

Fren 203	Intermediate French I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		16

2nd Semester

Fren 204	Intermediate French II	3
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Micro Use	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Syst	3
		15

Junior Year
1st Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3
Electives*		6
		15

2nd Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in French. Plan for residency requirement in French language.

Electives*		6
		15

Senior Year
1st Semester

Fren	[General elective 300 or above]	3
Electives*		12
		15

2nd Semester
1st Semester

Fren	[General elective 300 or above]	3
Electives*		12
		15

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[Department Recommendations]

For additional information contact:
Dr. Maryann Weber
Office: Webster Hall 358
Phone: 625-3107
E-Mail: weber-m@mail.mssc.edu

Bachelor of Science in Education
Major Code 0858
French Major (Plan A)
Grades K-12 Certification
One of Two Teaching Fields

Freshman Year
1st Semester

Course		Hours
Fren 101	Beginning French I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
		19

2nd Semester

Fren 102	Beginning French II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
Elective*	Second Teaching Field	6
		19

Sophomore Year
1st Semester
Pass C-Base test for admission.
Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get a faculty recommendation, write autobiography, and file admission papers for tentative admission.

Fren 203	Intermediate French I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 302	Exceptional Child	2
Elective*	Second Teaching Field	4
		21

2nd Semester

Fren 204	Intermediate French II	3
Educ 301	Use of Computer Software in the Classroom	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Psy 305	Developmental Psychology	4
Elective*	Second Teaching Field	3
		20

Junior Year
Pass media competencies.
If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.
1st Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3
Educ 321	Microteaching	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 423	Classroom Management	2
Elective*	Second Teaching Field	3
		20

2nd Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in French. Plan for residency requirement in French language.

Psy 310	Educational Psychology	3
Electives*	Second Teaching Field	6
		18

Senior Year
Apply for student teaching during the second week of the semester. All course work must be completed except for Professional Semester courses.
1st Semester

Fren	[General elective 300 or above]	6
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Psy 412	2-3
Educ 422	Content Area Literacy: Secondary (WI)	2
Electives*	Second Teaching Field	3
		19-20

2nd Semester

Educ 345	Tchng For Lang K-12	2
Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 464	Student Teaching	8
		14

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.
**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
Dr. Maryann Weber
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Bachelor of Science in Education
Major Code 0858
French Major (Plan B)
Grades K-12 Certification
Single Teaching Field

Freshman Year
1st Semester

Course		Hours
Fren 101	Beginning French I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
		16

2nd Semester

Fren 102	Beginning French II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year
1st Semester
Pass C-Base test for admission.
Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get a faculty recommendation, write autobiography, and file admission papers for tentative admission.

Fren 203	Intermediate French I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 302	Exceptional Child	2
		17

2nd Semester

Fren 204	Intermediate French II	3
Educ 301	Use of Computer Software in the Classroom	3
Psy 305	Developmental Psychology	4
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
		17

Junior Year
Pass media competencies.
If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.
1st Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3
Educ 321	Microteaching	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 423	Classroom Management	2
		17

2nd Semester

Fren	[Elective in language 300 or above]	3
Fren	[Elective in culture 300 or above]	3
Fren	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in French. Plan for residency requirement in French language.

Psy 310	Educational Psychology	3
		12

Senior Year

Apply for student teaching during the second week of the semester. All course work must be completed except for Professional Semester courses.

1st Semester

Fren	[General elective 300 or above]	6
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Psy 412	2-3
Educ 422	Content Area Literacy: Secondary (WI)	2
		16-17

2nd Semester

Educ 345	Tchng For Lang K-12	2
Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 464	Student Teaching	8
		14

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
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Bachelor of Arts
Major Code 1103
German Major

Freshman Year

1st Semester

Course		Hours
Ger 101	Beginning German I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		18

2nd Semester

Ger 102	Beginning German II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year

1st Semester

Ger 203	Intermediate German I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		16

2nd Semester

Ger 204	Intermediate German II	3
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Micro Use	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Syst]	3
		15

Junior Year

1st Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3
Electives*		6
		15

2nd Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in German. Plan for residency requirement in German language.

Electives*		6
		15

Senior Year

1st Semester

Ger	[General elective 300 or above]	3
Electives*		12
		15

2nd Semester

Ger	[General elective 300 or above]	3
Electives*		12
		15

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[Department Recommendations]

For additional information contact:
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Bachelor of Science in Education
Major Code 0859
German Major (Plan A)
Grades K-12 Certification
One of Two Teaching Fields

Freshman Year

1st Semester

Course		Hours
Ger 101	Beginning German I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
		19

2nd Semester

Ger 102	Beginning German II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
Elective*	Second Teaching Field	6
		19

Sophomore Year

1st Semester

Pass C-Base test for admission.

Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get a faculty recommendation, write autobiography, and file admission papers for tentative admission.

Ger 203	Intermediate German I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 302	Exceptional Child	2
Elective*	Second Teaching Field	4
		21

2nd Semester

Ger 204	Intermediate German II	3
Educ 301	Use of Computer Software in the Classroom	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Psy 305	Developmental Psychology	4
Elective*	Second Teaching Field	3
		20

Junior Year

Pass media competencies.

If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.

1st Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3
Educ 321	Microteaching	2

Educ 329	Ped Theo, Meth & Prac	4
Educ 423	Classroom Management	2
Elective*	Second Teaching Field	3
		20

2nd Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in German. Plan for residency requirement in German language.

Psy 310	Educational Psychology	3
Electives*	Second Teaching Field	6
		18

Senior Year

Apply for student teaching during the second week of the semester. All course work must be completed except for Professional Semester courses.

1st Semester

Ger	[General elective 300 or above]	6
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Psy 412	2-3
Educ 422	Content Area Literacy: Secondary (WI)	2
Electives*	Second Teaching Field	3
		19-20

2nd Semester

Educ 345	Tchng For Lang K-12	2
Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 464	Student Teaching	8
		14

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.
**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
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Bachelor of Science in Education
Major Code 0859
German Major (Plan B)
Grades K-12 Certification
Single Teaching Field

Freshman Year

1st Semester

Course		Hours
Ger 101	Beginning German I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
		16

2nd Semester

Ger 102	Beginning German II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year

1st Semester

Pass C-Base test for admission.
Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get a faculty recommendation, write autobiography, and file admission papers for tentative admission.

Ger 203	Intermediate German I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 302	Exceptional Child	2
		17

2nd Semester

Ger 204	Intermediate German II	3
Educ 301	Use of Computer Software in the Classroom	3
Psy 305	Developmental Psychology	4
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
		17

Junior Year

Pass media competencies.
If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.

1st Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3
Educ 321	Microteaching	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 423	Classroom Management	2
		17

2nd Semester

Ger	[Elective in language 300 or above]	3
Ger	[Elective in culture 300 or above]	3
Ger	[Elective in literature 300 or above]	3

Arrange for oral and written proficiency tests in German. Plan for residency requirement in German language.

Psy 310	Educational Psychology	3
		12

Senior Year

Apply for student teaching during the second week of the semester. All course work must be completed except for Professional Semester courses.

1st Semester

Ger	[General elective 300 or above]	6
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Psy 412	2-3
Educ 422	Content Area Literacy: Secondary (WI)	2
		16-17

2nd Semester

Educ 345	Tchng For Lang K-12	2
Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 464	Student Teaching	8
		14

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.
**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
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Bachelor of Arts
Major Code 1105
Spanish Major

Freshman Year

1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		18

2nd Semester

Span 102	Beginning Spanish II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year

1st Semester

Span 203	Intermediate Spanish I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		16

2nd Semester

Span 204+	Intermediate Spanish II+	3
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Micro Use	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Syst	3
		15

+Or Equivalent

Junior Year

1st Semester

Span 300	Spanish Comp & Syntax	3
Span	[Choose Span 305, 321, or 333]	3
Span	[Choose Span 306, 321, or 333]	3
Electives*		6
		15

2nd Semester

Span 302	Intro to Hispanic Lit	3
Span	[Choose Span 210, 307, Or 322]	3
Span	[Choose Span 307, 320, Or 322]	3
Electives*		6
		15

Senior Year

1st Semester

Span	[Choose Spanish requirements]	3
Span	[Choose Spanish electives]	12
		15

2nd Semester

Span	[Complete Spanish electives]	3
Electives*		12
		15

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[Department Recommendations]

For additional information contact:
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Bachelor of Science in Education
Major Code 0847
Spanish Major (Plan A)
Grades K-12 Certification
One of Two Teaching Fields

Freshman Year

1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
Elective*	Second Teaching Field	3
		19

2nd Semester

Span 102	Beginning Spanish II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
Elective*	Second Teaching Field	6
		22

Sophomore Year

1st Semester

Pass C-Base Test.
Apply for admission to teacher education.

Span 203	Intermediate Spanish I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Psy 305	Developmental Psychology	4
Elective*	Second Teaching Field	4
		23

2nd Semester

Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	3
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Educ 302	The Exceptional Child	2
Elective*	Second Teaching Field	3
		20

Junior Year

Pass media competencies.

1st Semester

Span 300	Spanish Comp & Syntax	3
Span 305	Advanced Conversation	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 301	Use of Computer Software in the Classroom	3
Educ 423	Classroom Management	2
Elective*	Second Teaching Field	3
		20

2nd Semester

Span 302	Intro to Hispanic Lit	3
Span 307	Intro to Latin Amer Civ	3
Span 320	Advanced Span Comp	3
Span 321 or 322, or 333, or 334		3
Educ 422	Content Area Literacy: Secondary (WI)	2
Electives*	Second Teaching Field	6
		20

Senior Year

Apply for student teaching. All course work must be completed except for Professional Semester courses.

1st Semester

Span 306	Intro to Span Civilization	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Psy 412	2-3
Comm 305	Intercultural Communication	3
Electives*	Second Teaching Field	5
		19-20

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 345	Tchng For Lang K-12	2
Educ 464	Student Teaching	8
		14

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.
**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
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Bachelor of Science in Education
Major Code 0847
Spanish Major (Plan B)
Grades K-12 Certification
Single Teaching Field

Freshman Year

1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Intro to Tchr Educ I	1
		16

2nd Semester

Span 102	Beginning Spanish II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
		16

Sophomore Year

1st Semester

Pass C-Base Test.

Apply for admission to teacher education.

Span 203	Intermediate Spanish I	3
Educ 200	Intro to Tchr Educ II	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Psy 305	Developmental Psychology	4
		19

2nd Semester

Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	3
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Educ 302	The Exceptional Child	2
		17

Junior Year

Pass media competencies.

1st Semester

Span 300	Spanish Comp & Syntax	3
Span 305	Advanced Conversation	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 301	Use of Computer Software in the Classroom	3
Educ 423	Classroom Management	2
		17

2nd Semester

Span 302	Intro to Hispanic Lit	3
Span 307	Intro to Latin Amer Civ	3
Span 320	Advanced Span Comp	3
Span 322	Peninsular Literature	3
Educ 422	Content Area Literacy: Secondary (WI)	2
		14

Senior Year

Apply for student teaching. All course work must be completed except for Professional Semester courses.

1st Semester

Span 306	Intro to Span Civilization	3
Span 333	Survey of Span-Amer Lit I	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420* or Psy 412	2-3
		14-15

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issue in Educ	2
Educ 345	Tchng For Lang K-12	2
Educ 464	Student Teaching	8
		14

All courses should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

*Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:
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Course Descriptions

Arabic (Ara)

Ara 101 (Demand) 3 hrs. cr.
Beginning Arabic I
Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

Ara 102 (Demand) 3 hrs. cr.
Beginning Arabic II
A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

Ara 203 (Demand) 3 hrs. cr.
Intermediate Arabic I
Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

Ara 204 (Demand) 3 hrs. cr.
Intermediate Arabic II
Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

Ara 298 (Demand) 1-3 hrs. cr.
Selected Topics in Arabic
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.

Ara 498 (Demand) 1-3 hrs. cr.
Special Topics in Arabic
For upper-division students. Topics to be announced each time the course is offered.

Ara 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in Arabic. Prerequisite: Permission of instructor. The proposed study must be approved by the instructor, adviser, department head and dean in advance of enrollment.

Chinese (Chi)

Chi 100 (Demand) 1 hr. cr.
Introductory Chinese
Introductory course which will acquaint students with Chinese customs, culture, social behaviors, pinyin (Chinese Phonetic Alphabet) and Romanization. The course which will be primarily taught in English will mainly focus on spoken Chinese and written symbol basics such as radicals. No grammar or structural patterns will be explicitly taught in this course. Prerequisite: none.

Chi 101 (F) 3 hrs. cr.
Beginning Chinese I (Mandarin)
Pronunciation, grammar, elementary conversation, development of basic communicative skills.

Chi 102 (S) 3 hrs. cr.
Beginning Chinese II (Mandarin)
A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

Chi 203 (F) 3 hrs. cr.
Intermediate Chinese I (Mandarin)
Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

Chi 204 (S) 3 hrs. cr.
Intermediate Chinese II (Mandarin)
A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.

Chi 298 (Demand) 1-3 hrs. cr.
Selected Topics in Chinese
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.

Chi 305 (Demand) 3 hrs. cr.
Readings & Conversation I
Continued development of language skills in the target language via readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Chi 204 or equivalent level of proficiency.

Chi 306 (Demand) 3 hrs. cr.
Readings & Conversation II
Continuation of Chinese 305. Continued development of the four basic language skills in the target language via readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Chi 305 or equivalent level of proficiency.

Chi 498 (Demand) 1-3 hrs. cr.
Special Topics in Chinese
For upper-division students. Topics to be announced each time the course is offered.

Chi 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in Chinese. Prerequisite: Permission of instructor. The proposed study must be approved by the instructor, adviser, department head and dean in advance of enrollment.

French (Fren)

Fren 101 (F) 3 hrs. cr.
Beginning French I
The first semester of French language instruction developing proficiency in listening, speaking, reading, and writing, and providing an introduction to the study of French-speaking cultures.

Fren 102 (S) 3 hrs. cr.
Beginning French II
The second semester of French language instruction developing proficiency in listening, speaking, reading, and writing, and providing an introduction to the study of French-speaking cultures. Prerequisite: Fren 101 or equivalent level of proficiency.

Fren 203 (F) 3 hrs. cr.
Intermediate French I
The third semester of French language instruction developing proficiency in listening, speaking, reading, and writing, and providing an introduction to the study of French-speaking cultures. Prerequisite: Fren 102 or equivalent level of proficiency.

Fren 204 (S) 3 hrs. cr.
Intermediate French II
The fourth semester of French language instruction developing proficiency in listening, speaking, reading, and writing, and providing an introduction to the study of French-speaking cultures. Prerequisite: Fren 203 or equivalent level of proficiency.

Fren 298 (Demand) 1-8 hrs. cr.
Selected Topics in French
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Fren 301 (Demand) 3 hrs. cr.
Readings & Conversation
Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 302 (Demand) 3 hrs. cr.
Contemporary French Culture and Civilization
Continued development of language skills (listening, speaking, reading, writing). Contemporary France, the daily life of its people, the social and economic institutions which impact them, and the arts and media will be the focus for reading and discussion. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 303 (Demand) 3 hrs. cr.
French Composition
Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 304 (Demand) 3 hrs. cr.
Introduction to French Literature
This course is an introduction to basic concepts and terminology of literary criticism through several different critical approaches to the literary text. Reading and discussion of selected poems, plays, and fiction representing various literary periods. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 305 (Demand) 3 hrs. cr.
Contemporary Francophone Cultures
Analysis of contemporary life in selected French-speaking regions: Québec, Sénégal, and Guadeloupe and Martinique. Students will continue to develop their French language skills. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 322 (Demand) 3 hrs. cr.
Twentieth-Century French Literature
Reading and discussion of twentieth-century literature from France and the Francophone world. Prerequisite: Fren 301 or equivalent level of proficiency.

Fren 324 (Demand) 3 hrs. cr.
French Theater Studies
Reading and discussion of French plays from different historical and literary periods; practical experience in the classroom reader's theater. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 325 (Demand) 3 hrs. cr.
French Cinema
A survey of the most important aspects of cinematography and cinematographic production in France. Covers major figures in the field of film and an introduction to the major movements. Taught in French with readings both in French and English. Prerequisite: Fren 204 or the equivalent level of proficiency.

Fren 326 (Demand) 3 hrs. cr.
French and the Media
This course will explore the French media (particularly print journalism, television, radio, and the Internet); emphasis is placed on cultural similarities and differences between French and American media and on developing language proficiency related to the media. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 345 (Demand) 1-8 hrs. cr.
Internship in French
Off-campus work experience in areas related to professional goals of students. For advanced students in French. Application must be made during the first half of one semester for the following semester and must be approved prior to enrolling. Students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hours credit. Prerequisite: A minimum of 18 hours in French with a minimum 3.0 GPA; approval of department head before enrolling. Some internships may have specific prerequisites. Guidelines for the internship program are available in the department's offices and must be followed.

Fren 400 (Demand) 3 hrs. cr.
French for Business
An introduction to French business terminology, concepts, situations, and procedures. Oral and written activities will continue to develop French language skills within a commercial context. Prerequisite: Fren 301 or equivalent level of proficiency.

Fren 401 (Demand) 3 hrs. cr.
French Literature to 1700
An introduction to French literature from the Medieval Period through the seventeenth century, with emphasis on the development of forms and genres. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 403 (Demand) 3 hrs. cr.
Nineteenth-Century French Literature
Reading and discussion of selected works of some of the major poets, novelists, and playwrights of nineteenth-century France; the interrelatedness of history, literature, and the fine arts: emphasis on Romanticism, Realism, and Symbolism. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 404 (Demand) 3 hrs. cr.
French Women Writers
The course will focus on the reading and discussion of works by selected French and francophone women authors from the twelfth through the twentieth centuries. Prerequisite: Fren 204 or equivalent level of proficiency.

Fren 498 (Demand) 1-8 hrs. cr.
Special Topics in French
Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Fren 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

German (Ger)

Ger 101 (F) 3 hrs. cr.
Beginning German I
An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.

Ger 102 (S) 3 hrs. cr.
Beginning German II
A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and on the study of the German speaking cultures. Prerequisite: Ger 101 or the equivalent level of proficiency.

Ger 203 (F) 3 hrs. cr.
Intermediate German I
A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and on the study of the German speaking cultures at the intermediate level. Prerequisite: Ger 102 or the equivalent level of proficiency.

Ger 204 (S) 3 hrs. cr.
Intermediate German II
A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and on the study of the German speaking cultures, continuing at the intermediate level. Prerequisite: Ger 203 or the equivalent level of proficiency.

Ger 298 (Demand) 1-8 hrs. cr.
Selected Topics in German
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 301 (F) 3 hrs. cr.
Readings & Conversation
Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Ger 204 or the equivalent level of proficiency.

Ger 302 (Demand) 3 hrs. cr.
Readings in Literature and Culture
Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Ger 204 or the equivalent level of proficiency.

Ger 305 (Demand) 3 hrs. cr.
Business German
The course will establish a solid knowledge of basic business German vocabulary including topics such as: finances, European Union, traffic and transportation, business correspondence, job application, tourism, consumer (taxes), social structure, industry and work environment, trade, and environmental issues. Samples of International Business German conclude the course. Prerequisite: German 204 or equivalent level of proficiency.

Ger 345 (Demand) 1-8 hrs. cr.
Internship in German
Off-campus work experience in areas related to professional goals of students. For advanced students in German. Students must make application for the program during the first half of one semester for the following semester and must be approved prior to enrolling. Students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hours credit. Prerequisites: A minimum of 18 hours in German with a minimum 3.0 GPA.; approval of department head before enrolling. Some internships may have specific prerequisites. Guidelines for the internship program are available in the department's offices and must be followed.

Ger 401 (Demand) 3 hrs. cr.
German Music, Literature, and Art
Literature, music and art mirror historical development, social restructuring, political presence, and allow a glimpse into German culture. The course focuses on the interrelationship among the arts from the end of the 19th century to the 1930s. Prerequisite: Ger 204 or equivalent level of proficiency.

Ger 415 (Demand) 3 hrs. cr.
German Literature to 1500
As an introduction to early German literature of the eras of pre-Christian Germanic literature, the first Germanic bible translations, and Old High Germanic literature German epic literature from the Middle High German period, as well as courtly poetry, are included in this course with an emphasis on the change of literary forms in light of societal restructuring. Prerequisite: Ger 204 or equivalent level of proficiency.

Ger 416 (Demand) 3 hrs. cr.
German Literature 1500 - 1800
The three centuries comprehend German literature from the German Renaissance to the Sturm und Drang period, including Reformation, Barock and Enlightenment. Prerequisite: Ger 204 or equivalent level of proficiency.

Ger 417 (Demand) 3 hrs. cr.
German Literature: 19th Century
The Weimarer Klassik with Goethe and Schiller, German Early Romanticism, the Biedermeier period, Realism and Naturalism form the basis for the topics of this course. Prerequisite: Ger 204 or equivalent level of proficiency; approval by instructor.

Ger 418 (Demand) 3 hrs. cr.
German Literature: 20th Century
Early 20th Century literature, marked by the influence of Friedrich Nietzsche and Sigmund Freud, embraces interdisciplinarity, especially in the era before World War II, Expressionism. Post World War II literature constitutes the second half of the semester. Prerequisites: Ger 204 or equivalent level of proficiency; approval by instructor.

Ger 498 (Demand) 1-8 hrs. cr.
Special Topics in German
Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

Japanese (Jpn)

Jpn 100 (Demand) 1 hr. cr.
Introductory Japanese
Introductory course which will acquaint students with Japanese alphabet, customs, culture and social behaviors. Focus on spoken Japanese and Japanese written alphabet. No grammar or structural patterns will be explicitly taught in this course. Prerequisite: none.

Jpn 101 (F) 3 hrs. cr.
Beginning Japanese I
Pronunciation, conversation and grammar. Aural/oral drill.

Jpn 102 (S) 3 hrs. cr.
Beginning Japanese II
Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/oral drill. Prerequisite: Jpn 101.

Jpn 203 (F) 3 hrs. cr.
Intermediate Japanese I
Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.

Jpn 204 (S) 3 hrs. cr.
Intermediate Japanese II
Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.

Jpn 298 (Demand) 1-3 hrs. cr.
Selected Topics in Japanese
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.

Jpn 305 (Demand) 3 hrs. cr.
Advanced Japanese I
First half of an advanced course on spoken and written Japanese. This third-year course will continue to focus on the spoken language, but increased attention will be given to reading in the native script and to writing. Students who enroll in the course must be able to read and write in hiragana and katakana, and should be familiar with the basic kanji introduced in Japanese 100 and 200 level. Prerequisite: Jpn 204 or placement test.

Jpn 306 (Demand) 3 hrs. cr.
Advanced Japanese II
Conclusion of an advanced course on spoken and written Japanese. This third-year course will continue to focus on the spoken language, but increased attention will be given to reading in the native script and to writing. Students who enroll in the course must be able to read and write in hiragana and katakana, and should be familiar with the basic kanji introduced in Japanese 100 and 200 level. Prerequisite: Jpn 305 or placement test.

Jpn 498 (Demand) 1-3 hrs. cr.
Special Topics in Japanese
For upper-division students. Topics to be announced each time the course is offered.

Jpn 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in Japanese. Prerequisite: Permission of instructor. The proposed study must be approved by the instructor, adviser, department head and dean in advance of enrollment.

Russian (Rus)

Rus 101 (F, S) 3 hrs. cr.
Beginning Russian I
Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.

Rus 102 (F, S) 3 hrs. cr.
Beginning Russian II
A continuation of Rus 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 or equivalent level of proficiency.

Rus 103 (Demand) 6 hrs. cr.
Accelerated Russian for Business
An intensive overview of Russian language for beginners, developing working proficiency in listening, speaking, reading, and writing in the area of business.

Rus 203 (F, S) 3 hrs. cr.
Intermediate Russian I
Systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 or equivalent level of proficiency.

Rus 204 (F, S) 3 hrs. cr.
Intermediate Russian II
A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 or equivalent level of proficiency.

Rus 298 (Demand) 1-3 hrs. cr.
Selected Topics in Russian
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.

Rus 305 (Demand) 3 hrs. cr.
Conversation and Composition
Another step in developing a more comprehensive proficiency in Russian with a particular emphasis on speaking and writing. The course demands from the student an active use of new and already acquired vocabulary and grammar structures, as well as of syntactical features of oral and written expression. Prerequisite: Rus 204 or equivalent level of proficiency.

Rus 325 (Demand) 3 hrs. cr.
Film in Soviet and Russian History
A survey of the most important aspects of cinematography and cinematographic production in the Soviet Union and Russia. Covers major figures in the field of film as well as an introduction to the major filmic schools and movements. Taught in Russian with readings in both Russian and English. Prerequisite: Rus 204.

Rus 330 (Demand) 3 hrs. cr.
Russian Short Story
A survey of the major Russian short stories of the 19th and 20th centuries. Classes will involve discussion of the main figures of Russian literature. The course is to be taught entirely in Russian. Prerequisite: Rus 204.

Rus 498 (Demand) 1-3 hrs. cr.
Special Topics in Russian
For upper-division students. Topics to be announced each time the course is offered.

Rus 499 (Demand) 1-3 hrs. cr.
Independent Study
Individually directed study in Russian. Prerequisite: Permission of instructor. The proposed study must be approved by the instructor, adviser, department head and dean in advance of enrollment.

Spanish (Span)

Span 101 (F, S) 3 hrs. cr.
Beginning Spanish I
The first semester of Spanish language instruction, developing proficiency in listening, speaking, reading, and writing.

Span 102 (F, S) 3 hrs. cr.
Beginning Spanish II
The second semester of Spanish language instruction developing proficiency in listening, speaking, reading, and writing. Prerequisite: Span 101 or equivalent level of proficiency.

Span 203 (F, S) 3 hrs. cr.
Intermediate Spanish I
The third semester of Spanish language instruction developing proficiency in listening, speaking, reading, and writing. Prerequisite: Span 102 or equivalent level of proficiency.

Span 204 (F, S) 3 hrs. cr.
Intermediate Spanish II
The fourth semester of Spanish language instruction developing proficiency in listening, speaking, reading, and writing. Prerequisite: Span 203 or equivalent level of proficiency.

Span 205 (S,Even) 3 hrs. cr.
Spanish for Business
Taught in Spanish. Practical Spanish for persons in business. Prerequisites: Span 203 or the equivalent level of proficiency.

Span 206 (F,S) 3 hrs. cr.
Spanish for the Humanities
The fourth semester of Spanish language instruction developing proficiency in listening, speaking, reading, and writing. Specifically designed for the liberal arts students with an overview of the field of humanities in Spanish. Prerequisite: Span 203 or equivalent.

Span 208 (S,Even) 3 hrs. cr.
Spanish for Nursing and Health Professionals
Taught in Spanish. Practical Spanish for licensed or eligible candidates in the health care field. Prerequisites: Spanish 102 or the equivalent level of proficiency, and Health Assessment in English.

Span 210 (S) 3 hrs. cr.
Beginning Conversation
Emphasis on basic survival skills of understanding, speaking, and reading in Spanish, and on the study of Spanish speaking cultures. Prerequisite: Span 203. (This course may not count towards the 12 hour B.A. requirement in foreign language.)

Span 298 (Demand) 3 hrs. cr.
Selected Topics in Spanish
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.

Span 300 (F,S) 3 hrs. cr.
Spanish Composition and Syntax
Initial oral and written composition with emphasis on grammar; verbal aspect, modals, and tense contrasts through significant practice and sentence drills. Prerequisite: Span 204 or equivalent level of proficiency.

Span 302 (S) 3 hrs. cr.
Introduction to Hispanic Literature
Peninsular, Latin American and U.S. literature in Spanish viewed in representative works of several genres at levels appropriate for students initiating their study of literature with a modest amount of historical background and culture. Prerequisite: Span 300 or equivalent level of proficiency.

Span 304 (Demand) 2 hrs. cr.
Spanish Phonology
Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabication, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Span 300 or equivalent level of proficiency.

Span 305 (F) 3 hrs. cr.
Advanced Conversation
Spanish language and culture in the framework of the students' potential areas of contact: personal, travel and occupational. Conversation is the major course component. Prerequisite: Span 300, or may be taken concurrently with Span 300.

Span 306 (F) 3 hrs. cr.
Introduction to Spanish Civilization
(Writing Intensive)
Continued development of the four basic language skills through reading and conversation in Spanish culture. The study of more complex patterns in communicative skills is emphasized. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 307 (S) 3 hrs. cr.
Introduction to Latin American Civilization
Continued development of the four basic language skills in the language through reading and conversation in Latin American Culture. The study of more complex patterns in communicative skills is emphasized. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 308 (Demand) 3 hrs. cr.
Latin American Civilization: Mexico
An overview of the history of Latin American civilization using Mexico as the main frame of references and the major case for study. Prerequisite: Span 204 or equivalent level of proficiency.

Span 320 (S) 3 hrs. cr.
Advanced Spanish Composition
Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Span 300 or equivalent level of proficiency.

Span 321 (F, Even) 3 hrs. cr.
Peninsular Literature from El Cid to Calderon
Spain's literary history and important representative works and writings from El Cid to Calderon. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 322 (S, Odd) 3 hrs. cr.
Peninsular Literature from the Romantics to the Present
Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 333 (F, Odd) 3 hrs. cr.
Survey of Spanish-American Literature I
Survey of Spanish American literature from its beginnings to Marti. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 334 (S, Even) 3 hrs. cr.
Survey of Spanish-American Literature II
Survey of Spanish American literature from Marti to present. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 335 (Demand) 3 hrs. cr.
Mexican Literature *(Writing Intensive)*
Major figures and movements in the history of Mexican literature with an emphasis on the 20th century. Taught in Spanish as a seminar. Weekly lectures will alternate with discussion of the readings on a one-to-one basis. Prerequisite: Span 204 or equivalent level of proficiency.

Span 340 (Demand) 3 hrs. cr.
Latin American Cinema
A survey of the most important aspects of cinematography and cinematographic production in Latin America. Covers major figures in the field of film as well as an introduction to the major filmic schools and movements. Special emphasis will be placed on the cultural context that made the reception and production of the motion pictures a significant event. The course is to be taught entirely in Spanish with readings in both Spanish and English. Prerequisite: Span 204 or equivalent level of proficiency.

Span 343 (Demand) 3 hrs. cr.
Hispanic Children's Literature
Children's literature in Spanish from the Hispanic world in all genres. Weekly lectures on the readings will focus on cultural idiomatic recognition as well as cultural behavioral conditions under which the texts were created. Taught in Spanish. Prerequisite: Span 204 or equivalent level of proficiency.

Span 345 (Demand) 1-8 hrs. cr.
Internship in Spanish
Off-campus work experience in areas related to professional goals of students. For advanced students in Spanish. Students must be approved for the program prior to enrolling. Application must be made during the first half of one semester for the following semester. Students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hours credit. Prerequisites: A minimum of 18 hours in Spanish with a minimum 3.0 GPA; approval of department head before enrolling. Some internships may have specific prerequisites. Guidelines for the internship program are available in the department's offices and must be followed.

Span 350 (S,Even) 3 hrs. cr.
Latin American Contemporary Issues: The Others' Perspective
Current Latin American issues studied with the goal of developing consciousness about the last 30 years of Latin American reality from the perspective of the people. Taught in Spanish with some materials in English. Uses written articles, the Internet and World Wide Web, the Latin American press, and movies. Corequisite: Span 300 or equivalent level of proficiency.

Span 400 (Demand) 3 hrs. cr.
Hispanic Drama
Select works from Spain and Spanish America's most prominent playwrights. Readings and lectures with discussion on the socio-economic, political and cultural implications of different plays. Taught in Spanish. Corequisite: Span 300 or equivalent level of proficiency.

Span 498 (Demand) 1-3 hrs. cr.
Special Topics in Spanish Language/Literature
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: As stated in the syllabus for the specific offering.

Span 499 (F, S) 1-3 hrs. cr.
Independent Study
Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and must have 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.

Other Languages (OL)

OL 298 (Demand) 1-5 hrs. cr.
Special Topics in Foreign Languages
Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.

OL 498 (Demand) 1-5 hrs. cr.
Advanced Topics in Foreign Languages
Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

Translating (Tran)

Tran 300 (Demand) 3 hrs. cr.
Introduction to Professional Translating
An introduction to the general principles, procedures, theories, and tools of translating. Students will translate a wide variety of short texts into English. Some basic principles of linguistics will be covered. The language combinations possible will be determined by the availability of faculty at the time of preregistration for the course. Prerequisites: Excellent English language skills and completion of at least one foreign language course at the 300 level or the equivalent.

Geography (Minor)

Webster Hall 241, 625-9564

Faculty Miller - Head, Sale, Schmidt

The minor in Geography emphasizes topical and regional studies as well as introduction to geographic techniques, such as Geographic Information System (GIS), and Re-

mote Sensing (RS). Geography offers employment opportunities in education, regional/city planning, environmental studies, and the application of geotechniques. It also complements a program of study for students majoring in International Studies.

Though a major is not offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social science adviser, take a geography minor consisting of 21 semester hours.

Minor in Geography - 21 hours

Required Core (12 hours):

		Semester Hours
Geog 211	Regions and Nations	3
Geol 201	Physical Geography*	3
Geog 310	Human and Cultural Geography	3
Geog 352	Introduction to GIS and Remote Sensing	3
		12

Choose 6 hours from systematic geography:

Geog 311	Political Geography	3
Geog 322	Economic Geography	3
Geog 332	Historical Geography	3
Geog 457	Urban Geography	3
Geog 498	Seminar in Geography (human/cultural)	3
		6

Choose 3 hours from advanced regional geography:

Geog 412	Geography and Culture of Latin America	3
Geog 422	Geography of the United States and Canada	3
Geog 462	Geography of Asia	3
Geog 498	Seminar in Geography (advanced regional geography)	3
		3
		21

*For course description, see under Geology.

Course Descriptions

Geog 211 (F, S) 3hrs. cr.
Regions and Nations
Survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Geog 298 (Demand) 3 hrs. cr.
Topics in Geography
Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Geog 310 (F, S) 3hrs. cr.
Human and Cultural Geography
Study of the outcome of interaction between humankind and environment as expressed in the spatial organization of human activities, culture, and settlement patterns.

Geog 311 (S , Odd) 3hrs. cr.
Political Geography
Geographic factors which have influenced international relations and the policies of states as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which may contribute to unity or disunity.

Geog 322 (F, Even) 3hrs. cr.
Economic Geography
World commodities and geographic factors which affect their production and make them significant to the world economy.

Geog 332 (S, Even) 3hrs. cr
Historical Geography
Survey of evolving landscapes through time; analysis is made by means of systematic and regional geographic methodologies in order to reconstruct the changing culture-nature equation.

Geog 352 (S, Odd) 3hrs. cr.
Introduction to GIS and Remote Sensing
An introduction to the basic concepts of map reading, Geographic Information System (GIS), and Remote Sensing (RS) as tools for spatial analyses and resource management.

Geog 412 (Demand) 3hrs. cr.
Geography and Culture of Latin America
Cultural and physical regions and natural resources of South America, Central America, and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geog 422 (F, Even) 3hrs. cr.
Geography of the United States and Canada
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic, and physical phenomena.

Geog 457 (F, Odd) 3hrs. cr.
Urban Geography
Analysis of the characteristic pattern of urban space, spatial organization of urban settlement and urban societies.

Geog 462 (F, Odd) 3hrs. cr.
Geography of Asia
Systematic survey of the physical, cultural, economic, and political geography of monsoonal Asia, i.e., South, Southeast, and East Asia.

Geog 498 (Demand) 3hrs. cr.
Seminar in Geography (human/cultural)
Study and analysis of selected topics in human and cultural geography.

Geog 498 (Demand) 3hrs. cr.
Seminar in Geography (advanced regional geography)
Study and analysis of selected topics in advanced regional geography.

Geog 499 (Demand) 1-2-3 hrs. cr.
Independent Study
For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The individualized project will be directed by an instructor/adviser from the geography faculty in consultation with the student.

Geology

Reynolds Hall 210, 625-9376

Faculty Sloan - Head, Knapp

Geology, the study of the processes shaping planet earth, is of interest to civil engineers, environmental scientists, geographers, and biologists. Professionals find their background in geology useful for graduate studies, land-use planning, assessment of natural environmental hazards, resource development and waste disposal.

Geology 110 and Geology 320 constitute the basic foundation in geology necessary for more in-depth earth science courses. At Missouri Southern, geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

For additional information contact:
Dr. John Knapp
Office: Reynolds Hall 208
Phone: 625-9720
E-mail: knapp-j@mail.mssc.edu

Course Descriptions

Geol 110 (S) 5 hrs. cr.
Introduction to Geology
Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be required. Three lectures, two 2-hr. labs per week.

Geol 180 (F, Odd) 3 hrs. cr.
Introduction to Meteorology
Fundamentals of the circulation of the atmosphere, sequence of weather events. Includes interpretation of weather maps. Three lectures per week. Prerequisite: Physics 100 or equivalent.

Geol 201 (F, Even) 3 hrs. cr.
Physical Geography
Study of the physical or natural aspects of man's environment, with emphasis on land form development, oceanographic features, and climate. Students may not receive credit for both Geol 110 and Geol 201.

Geol 202 (F, Even) 1 hr. cr.
Map and Photo Interpretation
An introduction to the interpretation of topographic maps, aerial photos, and satellite images. One 3-hour laboratory per week. Designed to compliment Geol 201. Prerequisite: Geol 201 or equivalent, may be taken concurrently. Students may not receive credit for both Geol 110 and Geol 202.

Geol 300 (S, Even) 4 hrs. cr.
Environmental Geology
An introduction of man's relationship to the earth's environment. The impact and mitigation of natural disasters, such as volcanoes, earthquakes, landslides, floods, subsidence are analyzed for various actual cases. Includes the effects of oil spills, surface mining, waste disposal, ground water contamination and other man-made geologic hazards. The limitations of natural resources and projections for future needs are considered in terms of man's demand on the environment. Prerequisite: Five credits in physical science, physics, and/or chemistry.

Geol 320 (S, Even) 4 hrs. cr.
Historical Geology
A comprehensive study of the history of the earth within a plate-tectonics context. Emphasizes the global evolution of landscapes and the fossil record. Laboratory includes geologic mapping, the interpretation of geologic history from map and fossil data, and fossil identification. Three hours of lecture and one 2-hr. lab per week. Prerequisites: Geol 110 (Bio 101 or equivalent recommended).

Geol 498 (Demand) 1-3 hrs. cr.
Studies in Geology
In depth study of the geology of a particular region or system of regions through classroom sessions and/or field trips. Extended field trips will require a special lab fee and, in some cases, special physical conditioning or training. The region or area of interest varies from year to year. Prerequisites: Geol 320 and/or consent of the instructor.

Geol 499 (Demand) 1-3 hrs. cr.
Geology Field Studies
Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

History

Webster Hall 241, 625-9564

Faculty Miller - Chair, Cebula, Laas, Markman, Sale, Schmidt, Tannenbaum, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social sciences and law. A bachelor of science in education with a major in social studies - history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 121 for a social sciences minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements. History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requirements.

History 130 or 140 is a prerequisite for all upper division European, Asian, or Latin American history courses.

Hist 130 or 140 cannot be taken as a corequisite with any upper division European or Asian history course.

Bachelor of Arts with a Major in History

		Semester Hours
Core Requirements (p. 33) 51*		**42**
Computer Literacy Requirement - determined by Social Sciences Department		**3**
Foreign Language (four courses in one language)		**12**
History Requirements		**38**
Hist 110	U. S. History 1492-1877	3
Hist 120	U. S. History 1877-Present	
OR		
Hist 320	U. S. History 1877-Present	3
Hist 130	Western Civilization to 1660	3
Hist 140	Western Civilization Since 1660	3
Hist 150	Asian Civilizations	
OR		
Hist 210	History of Latin America	3
Hist 201	Introduction to Historical Research**	2
Hist 497	Seminar in Historical Research**	
OR		
Hist 496	(Internship)**	3
Hist	Upper Division U.S.**	6
Hist	Upper Division European or Asian or Latin American**	6
Hist	Upper Division Electives**	6
Electives		**29**
		124* **

*Required History courses satisfy Major requirements and 9 hours of Core Curriculum.
**See Prerequisites.
***Must include at least 40 upper division (300-400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Grades 9-12 Certification
History Emphasis
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**33**
History Requirements		**38**
Hist 110	U.S.History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization to 1660	3
Hist 140	Western Civilization Since 1660	3
Hist 150	Asian Civilizations	
OR		
Hist 210	History of Latin America	3
Hist 201	Introduction to Historical Research**	2
Hist 497	Seminar in Historical Research**	
OR		
Hist 496	(Internship)**	3
Hist	Upper Division U.S.**	6
Hist	Upper Division European	3
Hist	Upper Division Latin American or Asian**	3
Hist	Upper Division Asian**	3
Hist	Upper Division Electives**	6
Supporting Requirements		**21**
PSc 120	Gov't: U.S./State/Local	3
PSc	Upper Division Elective	3
Soc 110	Introduction to Sociology	3
Soc	Upper Division Elective	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
Econ 180	Amer Econ System	3
Education Certification Requirements (p. 161)		**39-40**
Elective		**1-2**
		132

*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.
**See Prerequisites

Minor in History

		Semester Hours
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization To 1660	
OR		
Hist 140	Western Civilization Since 1660	3
Hist	Upper Division U.S. Elective*	3
Hist	Upper Division European or Asian or Latin American Elective**	6
		18

*Must be chosen with approval of history adviser.

Minor in Social Studies for Secondary Education

See page 121.

Suggested Order of Study

Bachelor of Arts
Major Code 2205
History Major

Freshman Year
1st Semester

Course		Hours
Hist 110	U.S. History 1492-1877*	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		16

2nd Semester

Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[Comm 100 Oral Comm]	3
		16

Sophomore Year
1st Semester

Hist 130	Western Civilization to 1660	3
Foreign Language		3
CORE	[Eng Literature]	3
Hist 201	Introduction to Historical Research	2
CORE	[Econ 180 Amer Econ Sys]	3
		14

2nd Semester

Hist 140	Western Civ Since 1660	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Computer Literacy course selected with adviser's approval]	3
		17

Junior Year
1st Semester

Hist 150	Asian Civilizations	
OR		
Hist 210	History of Latin America	3
CORE	[Humanities and Fine Arts]	3
CORE	[International Cultural Stu]	3
Foreign Language		3
Elective	[A minor is suggested]	2
		14

2nd Semester

Hist	Upper Division U.S. (not 320)	3
Foreign Language		3
Electives	[A minor is suggested]	9
		15

Senior Year
1st Semester

Hist	Upper Div Eur or Asian or Latin American**	3
Hist	Upper Div Elective (not 320)	3
Electives	[A minor is suggested]	9
		15

2nd Semester

Hist	Upper Div Elective (not 320)	6
Hist 497	Seminar in Hist Research	3
Electives	[A minor is suggested]	7
		16

*Also meets a Core Curriculum requirement.
**See Prerequisites

[Department Recommendations]

For additional information contact:
Dr. Robert Markman
Office: Webster Hall 243
Phone: 625-9740
E-Mail: markman-r@mail.mssc.edu

Bachelor of Science in Education
Major Code 0843
Social Studies Major
(Plan B) Single Teaching Field
Grades 9-12 Certification
History Emphasis

Freshman Year
1st Semester

Course		Hours
Hist 110	U.S. History 1492-1877*	3
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Math 110 Intro to Col Math]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Education I	1
CORE	[Comm 100 Oral Comm]	3
		17

2nd Semester

Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
PSc 120	Gov't: U.S./State/Local*	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 101 Activities]	1
Elective		3
		17

Sophomore Year
1st Semester
Take C-Base test.

Hist 130	Western Civilization to 1660	3
Hist 201	Intro to Hist Research	2
CORE	[Eng Literature]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 200	Orientation to Education II	1
Psy 301	Adolescent Psychology	3
		19

2nd Semester
Apply for admission to Teacher Education.

Hist 140	Western Civ 1660-Present	3
Geog 211	Regions and Nations	3
Soc 110	Intro to Sociology*	3
CORE	[Humanities and Fine Arts]	3
Psy 310	Educational Psychology	2
Educ 302	Exceptional Child	2
		16

Junior Year
1st Semester
Pass media competencies.

Hist 150	Asian Civilizations	
OR		
Hist 210	History of Latin America	3
Econ 180	Amer Econ System	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 301	Use of Comp Sftwr in Clsrm	3
Educ 423	Classroom Management	2
		17

2nd Semester

Hist	Upper Div U.S. (not 320)	3
Hist	Upper Div Eur or Asian or Latin American**	3
Anth 342	Comparative Cultures	3
Hist	Upper Div Elective (not 320)	3
PSc	Upper Division Elective	3
		15

Senior Year
1st Semester
Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Hist	Upper Div Elective (not 320)	3
Hist 497	Seminar in Hist Research	3
Geog	Upper Division Elective	3
CORE	[Humanities and Fine Arts]	3
Educ 422	Rdng in Secondary School	2
		17

2nd Semester

Educ 334	Tchng Soc Sci in Sec Sch	2
Professional Semester		14
		16

See pages 158-170 for specific education department requirements.
*Also meets a Core Curriculum requirement.
** See prerequisites.

For additional information contact:
Dr. Richard B. Miller
Office: Webster Hall 245
Phone: 625-9564
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Course Descriptions

U. S. History

Hist 110 (F, S) 3 hrs. cr.
United States History 1492-1877
Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 120 (F, S) 3 hrs. cr.
United States History 1877 to Present
Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 201 (F) 2 hr. cr.
Introduction to Historical Research
A formal introduction to the discipline of history and the skills needed for studying it. Emphases include basic research techniques, critical reading of primary and secondary sources, and the recommended styles and strategies for writing research papers. Required of all History B.A. and all Social Studies (History emphasis) B.S.E. majors as a prerequisite for upper-division History courses. Prerequisite: Hist 110 or 120 or 130 or 140.

Hist 298 (Demand) 3 hrs. cr.
Topics in History
Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 310 (Demand) 3 hrs. cr.
United States Social and Intellectual History
Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Hist 315 (Demand) 3 hrs. cr.
Economic History of the United States
Development of the American economy and its related institutions from the early national period to the present.

Hist 320 (Demand) 3 hrs. cr.
United States History 1877 to Present
Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Prerequisite: Hist 110.

Hist 325 (F, Odd) 3 hrs. cr.
The American West
The conquest of the American West by Spanish, French, and American settlers and its effects on the native inhabitants of the region. The development of the mythic west will also be examined.

Hist 330 (Demand) 3 hrs. cr.
History of the American Indian
Social, political, diplomatic, military and legal history of native American society.

Hist 335 (F, Even) 3 hrs. cr.
United States Foreign Relations to 1900
Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Hist 340 (S, Odd) 3 hrs. cr.
United States Foreign Relations Since 1900
An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

Hist 343 (F, Odd) 3 hrs. cr.
U.S. Cold War Foreign Relations, 1945 to Present
An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Hist 345 (Demand) 3 hrs. cr.
Age of Jefferson and Jackson
Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

Hist 350 (S) 3 hrs. cr.
Civil War and Reconstruction
Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

Hist 355 (F, Even) 3 hrs. cr.
The South
Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

Hist 360 (Demand) 3 hrs. cr.
History of Missouri
Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

Hist 365 (Demand) 3 hrs. cr.
Colonial North America *(Writing Intensive)*
Discovery, conquest and development from 1492-1781. The imperial struggles between Spain, France, England and various Native Americans will be emphasized, along with the social, cultural, and economic growth of the European colonies.

Hist 373 (F, Odd) 3 hrs. cr.
Women in U.S. History *(Writing Intensive)*
A survey of the historical experience of American women from the colonial period to the modern era.

Hist 400 (Demand) 3 hrs. cr.
United States Military Experience 1775 to Present
Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization and technology.

Hist 405 (Demand) 3 hrs. cr.
The United States 1870-1920
United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

Hist 410 (S, Even) 3 hrs. cr.
The United States Since 1920
Impact of politics, diplomacy and economic trends of the United States since 1920.

Hist 496 3-8 hrs. cr.
Internship in History
Practical, professional training in archival skills and museum management in an area historical museum, archival institution or historic site, under the supervision of a faculty member and a professional from the participating institution. No more than three hours may be counted toward a major or minor. Prerequisite: Junior standing or above and departmental approval.

Hist 497 (F) 3 hrs. cr.
Seminar in Historical Research
(Writing Intensive)
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Hist 201, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Special Topics in History
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study
Individualized project directed by the instructor/adviser with approval of department head and school dean. Advanced standing in the major field and a minimum GPA of 3.0 are required.

European History

Hist 130 or Hist 140 is a prerequisite for any upper level European History course.

Hist 130 (F, S) 3 hrs. cr.
Western Civilization to 1660
Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

Hist 140 (F, S) 3 hrs. cr.
Western Civilization Since 1660
Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

Hist 201 (F) 2 hr. cr.
Introduction to Historical Research
A formal introduction to the discipline of history and the skills needed for studying it. Emphases include basic research techniques, critical reading of primary and secondary sources, and the recommended styles and strategies for writing research papers. Required of all History B.A. and all Social Studies (History emphasis) B.S.E. majors as a prerequisite for upper-division History courses. Prerequisite: Hist 110 or 120 or 130 or 140.

Hist 298 (Demand) 3 hrs. cr.
Topics in History
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 369 (Demand) 3 hrs. cr.
Nineteenth Century Europe
Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism and individual national events.

Hist 370 (Demand) 3 hrs. cr.
Twentieth Century Europe
A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.

Hist 371 (Demand) 3 hrs. cr.
The Holocaust
An examination of the destruction of the European Jews from 1933 to 1945, with special attention to the social, political, and scientific context of the Holocaust. Special attention to European antisemitism, the rise of German Nazism, the development of a policy of mass murder, and the operation of ghettos and death camps.

Hist 375 (F, Even) 3 hrs. cr.
English History to 1660 *(Writing Intensive)*
The peoples of England and their institutions from prehistoric settlement through the English civil wars. Major topics include the impact of Anglo-Saxon and Norman invasions, the changing roles of monarchy and of parliament, and life among various social classes.

Hist 380 (S, Odd) 3 hrs. cr.
English History Since 1660
English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.

Hist 387 (F, Odd) 3 hrs. cr.
History of Russia to 1796 *(Writing Intensive)*
History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.

Hist 388 (S, Even) 3 hrs. cr.
History of Russia Since 1796
Russia since the reign of Catherine the Great until the recent demise of the Soviet Union. Investigates the problems posed by Tsarist Autocracy and Serfdom, the origins and course of the Bolshevik Revolution, Russian life under communism, and the structural weaknesses and events contributing to the collapse of the Soviet Union.

Hist 390 (Demand) 3 hrs. cr.
History of Germany
Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.

Hist 420 (F, Odd) 3 hrs. cr.
Medieval History
Europe from the end of the Roman Empire to c. 1350. Emphasis on the emergence of the Papacy, manorialism and feudalism, the development of cities and an urban economy, and on intellectual life and artistic expression.

Hist 425 (S, Even) 3 hrs. cr.
The Renaissance and the Reformation 1350-1559
An overview of Europe from 1350 to 1559. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

Hist 435 (F, Even) 3 hrs. cr.
The Era of the French Revolution and Napoleon
An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic and empire.

Hist 440 (S, Even) 3 hrs. cr.
European Intellectual History
Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.

Hist 497 (F) 3 hrs. cr.
Seminar in Historical Research
(Writing Intensive)
Topics pertaining to an era or historical problem of special interest the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Hist 201, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Special Topics in History
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study
Individualized project directed by the instructor/adviser with approval of the department head and the school dean prior to enrollment. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Asian History

History 130 or 140 is a prerequisite for any upper level Asian History course.

Hist 150 (F, Odd) 3 hr. cr.
Asian Civilizations
Introductory survey of the history and culture of traditional and modern Asia, focusing on the distinctive culture areas of monsoonal Asia, i.e., South, Southeast, and East Asia. Some attention will also be given to Asian culture areas outside this zone.

Hist 201 (F) 2 hr. cr.
Introduction to Historical Research
A formal introduction to the discipline of history and the skills needed for studying it. Emphases include basic research techniques, critical reading of primary and secondary sources, and the recommended styles and strategies for writing research papers. Required of all History B.A. and all Social Studies (History emphasis) B.S.E. majors as a prerequisite for upper-division History courses. Prerequisite: Hist 110 or 120 or 130 or 140.

Hist 298 (Demand) 3 hrs. cr.
Topics in History
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 313 (Demand) 3 hrs. cr.
East Asian Civilizations I
Survey of the history of pre-modern East Asia to ca. 1800, focusing particularly on China, Japan, and to a lesser extent, Korea. Course will emphasize the development of East Asian cultures, societies and political structures and will use a comparative analysis inseeking to understand the history of the region.

Hist 314 (Demand) 3 hrs. cr.
East Asian CivilizationsII
Survey of the history of modern East Asia from ca. 1800, focusing particularly on China, Japan, and to a lesser extent, Korea. Course will emphasize the impact of the West and the problems of modern development, using a comparative analysis in seeking to understand the history of the region.

Hist 415 (Demand) 3 hrs. cr.
History of China
Survey of Chinese history from ancient through modern periods. Emphasis on Chinese society, political developments, and relations with the West and Japan in the nineteenth and twentieth centuries.

Hist 430 (Demand) 3 hrs. cr.
History of Japan
Survey of Japanese history from ancient through modern periods. Emphasis on Japanese society, political developments, and relations with the West since the middle of the nineteenth century. Attention is given to Japan's rapid economic development since the 1860s and its rise as a world power.

Hist 455 (F, Even) 3 hrs. cr.
Traditional South Asia
Survey of traditional South Asia (focusing on the area which now includes India, Pakistan, and Bangladesh) from the Harappan Culture through the Mughal period. Course emphasizes developments in South Asian culture, society, and politics, particularly the development of religions, such as Hinduism, Buddhism, Jainism, Islam, and Sikhism, as well as the evolution of South Asian politics.

Hist 458 (S, Odd) 3 hrs. cr.
Modern South Asia
Survey of modern South Asia (focusing on the area which now includes India, Pakistan, and Bangladesh) from the collapse of the Mughal empire through the present. Course emphasizes developments in South Asian culture, society, and politics, particularly the impact of European imperialism, the rise of Indian nationalism, Indian independence, and post-independence foreign and domestic politics.

Hist 497 (F) 3 hrs. cr.
Seminar in Historical Research
(Writing Intensive)
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, as similate and present new areas of knowledge. Prerequisites: Junior standing, Hist 201, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Special Topics in History
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study
Individualized project directed by the instructor/adviser prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Global History

Hist 201 (F) 2 hr. cr.
Introduction to Historical Research
A formal introduction to the discipline of history and the skills needed for studying it. Emphases include basic research techniques, critical reading of primary and secondary sources, and the recommended styles and strategies for writing research papers. Required of all History B.A. and all Social Studies (History emphasis) B.S.E. majors as a prerequisite for upper-division History courses. Prerequisite: Hist 110 or 120 or 130 or 140.

Hist 341 (F) 3 hrs. cr.
Problems in Recent Diplomatic History
Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants. May be repeated up to 9 hrs.

Hist 497 (F) 3 hrs. cr.
Seminar in Historical Research
(Writing Intensive)
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Hist 201, Eng 102 and 6 hrs. upper-division history.

Latin American History

Hist 201 (F) 2 hr. cr.
Introduction to Historical Research
A formal introduction to the discipline of history and the skills needed for studying it. Emphases include basic research techniques, critical reading of primary and secondary sources, and the recommended styles and strategies for writing research papers. Required of all History B.A. and all Social Studies (History emphasis) B.S.E. majors as a prerequisite for upper-division History courses. Prerequisite: Hist 110 or 120 or 130 or 140.

Hist 210 (F, Even) 3 hrs. cr.
History of Latin America
Provides a historical overview of Latin America, from the Spanish and Portuguese to the present day, by examining the major themes and events in the region. Particular emphasis will be placed on the Indian background of Latin American history and the ways the natives helped shape Latin American society. Topics covered will include the conquest of Latin America, Spanish administration, the independence movements of the nineteenth century, nation building, democratization and the influence of the United States.

Hist 474 (Demand) 3 hrs. cr.
Colonial Latin America
Colonial Latin America will provide a historical overview of Latin American from the Spanish and Portuguese conquest until independence in the 1820s, by examining the major themes and events in the region. Particular emphasis will be placed on the Indian background to Latin American history and the ways the natives helped shape Latin American society. Topics covered will include the conquest of Latin America, imperial rivalries, Spanish administration, Indian labor, and the independence movements of the 19th century.

Hist 475 (Demand) 3 hrs. cr.
Modern Latin America
Historical overview of Latin America since independence, examining major themes, events, and issues in the region. Particular emphasis on ways in which Latin American peoples have struggled to resist, adapt, and take advantage of the social forces influencing their nations' urbanization, populism, social revolution, development, peasant rebellion, the position of women in society, and the Church.

Hist 497 (F) 3 hrs. cr.
Seminar in Historical Research
(Writing Intensive)
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Hist 201, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Special Topics in History
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study
Individualized project directed by the instructor/adviser prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Mathematics

Reynolds Hall 210, 625-9376

Faculty Vazquez - Head, Adkins, Cassens, Curtis, Elick, Hand, Harmon, Johnson, Livingston, Martin, Mulkey, Thuong, Weaver

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path. The computational mathematics option allows a student to obtain a double major in mathematics and computer science.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelors and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics, mathematics education, computational math or minoring in math, only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements and supporting requirements. Mathematics courses used as prerequisites require a grade of "C" or better. Placement in Math 030 or Math 110 requires:

(a) ACT score of 19 in the mathematics section or;
(b) qualifying score on the departmental placement exam or;
(c) Math 020 with a grade of "C" or better.

Bachelor of Science with a Major in Mathematics

		Semester Hours
Core Requirements (p. 33) 51*		**43**
Mathematics Requirements		**39**
Math 150	Calculus with Analytic Geometry I**	5
Math 250	Calculus with Analytic Geometry II**	5
Math 260	Calculus with Analytic Geometry III**	5
Math 300	Fundamentals of Mathematical Thought**	3
Math 342	Abstract Algebra**	
OR		
Math 351	Linear Algebra**	3
Math	Electives numbered above 320***	18
Supporting Requirements		**16**
Phys 160	General Physics I	3
Phys 270	General Physics II	5
Chem 101	General Chemistry I	5
Comp 110 (or above)		3
Electives		**26**
TOTAL		**124****

*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.
**See Prerequisites
***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement and either 371 or 452 to satisfy Writing Intensive requirement.
****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science with a Major in Mathematics

Computational Mathematics Option*

		Semester Hours
Core Requirements (p. 33) 51**		**43**
Mathematics Requirements		**33**
Math 150	Calculus with Analytic Geometry I***	5
Math 250	Calculus with Analytic Geometry II***	5
Math 260	Calculus with Analytic Geometry III***	5
Math 300	Fundamentals of Mathematical Thought***	3
Math 350	Introduction to Numerical Analysis***	
OR		
Math 431	Numerical Analysis***	3
Math 351	Linear Algebra***	3
Math 371	Introduction to Operations Research (WI)***	3
Math	Electives numbered above 320***	6
CIS	**Core**	**33**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 370	Programming for Internet	3
CIS 425	Database Management Systems (WI)	3
CIS 430	Introduction to Artificial Intelligence	3
CIS 450	Operating Systems (WI)	3
CIS	Electives numbered above 305	3
Supporting Requirements		**13**

Physics and/or chemistry electives must include at least one course from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, and Phys 300)

Electives		**2**
Total		**124**

*This program is the same as the bachelor of science in CIS, computer science (Option 2). See page 180. Students selecting this option will graduate with a double major, mathematics and computer information science.
**Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.
***See Prerequisites

Bachelor of Science in Education with a Major in Mathematics

Grades 9-12 Certification

Plan A **One of Two Teaching Fields**

		Semester Hours
Core Requirements (p. 33) 51*		**45**
Mathematics Requirements		**30**
Math 150	Calculus with Analytic Geometry I**	5
Math 250	Calculus with Analytic Geometry II**	5
Math 260	Calculus with Analytic Geometry III**	5
Math 300	Fundamentals of Mathematical Thought**	3
Math 332	Geometry**	3
Math 342	Abstract Algebra**	
Math 351	Linear Algebra**	3
Math 361	Probability& Statistics**	3
Math 371	Intro/Operations Research	
OR		
Math 452	Mathematical Models	3
Supporting Requirements		**3**
Comp 110		3
Education Certification Requirements **(p. 161)**		**39-40**
Second teaching field (some fields **exceed 30 hours)**		**30**
TOTAL		**147-148****

*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.
**See Prerequisites

Bachelor of Science in Education with a Major in Mathematics

Grades 9-12 Certification

Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**40**
Mathematics Requirements		**33**
Math 150	Calculus with Analytic Geometry I**	5
Math 250	Calculus with Analytic Geometry II**	5
Math 260	Calculus with Analytic Geometry III**	5
Math 300	Fundamentals of Mathematical Thought**	3
Math 332	Geometry**	3
Math 342	Abstract Algebra**	3
Math 351	Linear Algebra**	3
Math 361	Probability and Statistics I**	3
Math 371	Intro/Operations Research	
OR		
Math 452	Mathematical Models	3
Supporting Requirements		**16**
Phys 160	General Physics I	3
Phys 270	General Physics II	5
Chem 101	General Chemistry I	5
Comp 110	(or above)	3
Education Certification Requirements **(p. 161)**		**43**
TOTAL		**132**

*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the Core Curriculum.
**See Prerequisites

Minor in Mathematics

		Semester Hours
Math 150	Calculus with Analytic Geometry I	5
Math 250	Calculus with Analytic Geometry II	5
Math	Electives numbered above 250*	11
		21

*At least 6 hours upper division (excluding Math 302).

Suggested Order of Study

Bachelor of Science
Major Code 1701
Mathematics

Freshman Year
1st Semester

Course		Hours
Math 150	Calc w/Anal Geo I	5
Chem 101	General Chemistry I	5
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Area 2 Elective]	3
Psy 120	College Orientation	1
		17

2nd Semester

Math 250	Calc w/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 160	General Physics I	3
Comp 110	Programming I	3
CORE	[Comm 100 Oral Comm]	3
		17

Sophomore Year
1st Semester

Math 260	Calc w/Anal Geo III	5
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 103 Lifetime Wellness]	2
Phys 270	General Physics II	5
		18

2nd Semester

Math 300	Fund of Math Thought	3
Math	Elective [322]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Area 2 Elective]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
		15

Junior Year
1st Semester

Math	Electives**	6
CORE	[Area 2 Elective]	3
Elective		3
CORE	[Psc 120 Govt US/Sta/Loc	3
		15

2nd Semester

Math	Electives**	6
CORE	[Bio 101 General Biology]	4
CORE	[Kine 101 Physical Activity]	1
CORE	[Area 5 Elective]	3
Elective		1
		15

Senior Year
1st Semester

Math Electives**	6
Electives	6
	12

2nd Semester

Math Electives**	6
Electives	9
	15

**Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:
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Bachelor of Science
Major Code 1702
Computational Mathematics Option

Freshman Year
1st Semester

Course		Hours
Comp 110	Programming I	3
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 or Soc 110]	3
Psy 120	College Orientation	1
		15

2nd Semester

Comp 210	Programming II	3
Math 250	Calc W/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 151	Elem Col Phys I	5
		16

Sophomore Year
1st Semester

Comp 234	Bus DP Tech (COBOL)	3
Chem 101	General Chemistry I	5
Math 260	Calc w/Anal Geo III	5
CORE	[Comm 100 Oral Comm]	3
		16

2nd Semester

CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Area 2A]	3
		15

Junior Year
1st Semester

CIS 370	Programming for Internet	3
CIS 430	Intro to Artif Intell	3
Math 371	Intro Ops Research (WI)	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
		16

2nd Semester

CIS 425	Database Mgmt Systems (WI)	3
Math 350	Intro to Num Analysis	3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[Psc 120 Govt US/Sta/Loc]	3
		15

Senior Year
1st Semester

CIS 450	Operating Sys (WI)	3
Math 351	Linear Algebra	3
Chem/Phys	Elective*	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 120 or 320]	3
CORE	[Area 2C]	1
		16

2nd Semester

CIS 360	Computer Graphics	3
CIS	Elective	3
Math	Elective**	3
CORE	[Area 2B]	3
CORE	[Area 2C]	3
		15

*See requirements and exclusions on page 104.
**Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:
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E-Mail: vazquez-j@mail.mssc.edu

Bachelor of Science in Education
Major Code 9022
Mathematics Major
Grades 9-12 Certification
(Plan B) Single Teaching Field

Freshman Year
1st Semester

Course		Hours
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
Psy 100	General Psychology	3
CORE	[Kine 103 Lifetime Wellness]	2
Educ 100	Orientation to Educ I	1
Psy 120	College Orientation	1
		15

2nd Semester

Math 250	Calc w/Anal Geo II	5
Chem 101	General Chemistry I*	5
CORE	[Eng 102 Comp II (WI)]	3
Comp 110	Programming I	3
CORE	[Kine 101 Physical Activity]	1
		17

Sophomore Year

1st Semester

Take C-Base Test.

Math 260	Calc w/Anal Geo III	5
Phys 160	General Physics I	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 Elective]	3
Educ 200	Orientation to Educ II	1
		15

2nd Semester

Apply for admission to Teacher Education.

Math 300	Fund of Math Thought	3
CORE	[Bio 101 General Biology]	4
Psy 301	Adolescent Psychology	3
CORE	[Hist 110 U.S. History]	3
Phys 270	General Physics II	5
		18

Junior Year

1st Semester

Pass media competencies.

Math 332	Geometry	3
OR		
Math 361	Prob. & Statistics I	3
Math 342	Abstract Algebra	3
OR		
Math 351	Linear Algebra	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Hist 120 or 320 U.S. Hist]	3
		17

2nd Semester

Math	Electives**	3
CORE	[PSc 120 Gov't US/Sta/Loc]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
CORE	[Area 2 Elective]	3
CORE	[Area 2 Elective]	3
		16

Senior Year

1st Semester

Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Math 332	Geometry	3
OR		
Math 361	Prob. & Statistics I	3
Math 342	Abstract Algebra	3
OR		
Math 351	Linear Algebra	3
CORE	[Area 5 Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Reading in the Content Area: Secondary	2
Educ 301	Use of Comp Software in the classroom	3
		17

2nd Semester

Educ 339	Teaching Math in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Psy 412	Meas & Eval	2
Educ 462	Student Teaching	8
		17

**Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:
Juan Vazquez, Department Head
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Phone: 625-9540
E-Mail: vazquez-j@mail.mssc.edu

Course Descriptions

Math 020 (F, S) 3 hrs. cr.
Beginning Algebra
Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

Math 030 (F, S) 3 hrs. cr.
Intermediate Algebra
Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and a score of 19 or above on the ACT Mathematics Section or qualifying score on departmental exam or Math 020 with a grade of "C" or better. No credit towards baccalaureate degree.

Math 110 (F, S) 3 hrs. cr.
Introduction to College Mathematics
Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and a score of 19 or above on the ACT Mathematics Section or qualifying score on departmental placement exam or Math 020 with a grade of "C"or better.

Math 111 (F, S) 3 hrs. cr.
Math for Elementary Teachers I
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and a score of 16 or above on the ACT Mathematics Section or Math 020 with a grade of "C" or better. *(Will not meet the Core Curriculum mathematics requirement for nonelementary education majors.)*

Math 112 (Demand) 3 hrs. cr.
Trigonometry
Trigonometric functions, inverses and their graphs; trigonometric identities and equations; solution of the general triangle; complex numbers. Prerequisite: Two units of high school algebra, one unit high school geometry and a score of 22 or above on the ACT Mathematics Section or Math 030 with grade of "C" or better.

Math 120 (F, S) 3 hrs. cr.
Math for Elementary Teachers II
A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 with a grade of "C" or better or permission of department.

Math 130 (F, S) 3 hrs. cr.
College Algebra
Functions and their graphs; polynomial, rational, exponential and logarithmic functions; systems of equations; the binomial theorem. Prerequisite: Two units of high school algebra, one unit of high school geometry and a score of 22 or above on the ACT Mathematics Section or Math 030 with grade of "C" or better.

Math 131 (F, S) 3 hrs. cr.
Finite Mathematics
Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: Two units of high school algebra and a score of 22 or above on the ACT Mathematics Section or Math 030 with a grade of "C"or better.

Math 140 (F, S) 5 hrs. cr.
Algebra and Trigonometry
Equivalent of Math 112 and Math 130. Prerequisite: Two units of high school algebra, one unit of high school geometry and a score of 22 or above on the ACT Mathematics Section or Math 030 with a grade of "C" or better. Only two hours credit for students with Math 112 or Math 130 credit.

Math 150 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry I
Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or better or four units of high school mathematics and a qualifying score on the Mathematics Placement Test.

Math 250 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry II
Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C" or better.

Math 260 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry III
Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C" or better.

Math 300 (S) 3 hrs. cr
Fundamentals of Mathematical Thought
Introduction to modern algebra, analysis and proofs; sets, logic, predicate calculus, relations, functions, logical development of number systems, cardinality and divisibility. Prerequisite or corequisite: Math 260 with a grade of "C" or better.

Math 302 (Demand) 3 hrs. cr.
Applied Calculus
Calculus applications of differentiation and integration in business, social sciences, life sciences and technical careers. Prerequisite: Math 130 or Math 131 with a grade of "C" or better or two years high school algebra and qualifying score on the Mathematics Placement Test. Will not count toward a major or minor in mathematics.

Math 310 (Demand) 3 hrs. cr.
Elementary Statistics
Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130 with a grade of "C" or better. Will not count toward a major in mathematics.

Math 312 3 hrs. cr.
Problems of Teaching Arithmetic in the Elementary Schools
(See Educ 312 for description.) Will not count toward a major in mathematics.

Math 322 (S) 3 hrs. cr.
Differential Equations
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260 with a grade of "C" of better.

Math 332 (F, Even) 3 hrs. cr.
Geometry
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250 with a grade of "C" or better.

Math 339 (S) 3 hrs. cr.
Teaching Mathematics in Secondary Schools
Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Math 342 (F, Odd) 3 hrs. cr.
Abstract Algebra
Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300 with a grade of "C" or better.

Math 350 (S, Odd) 3 hrs. cr.
Introduction to Numerical Analysis
Error analysis, solution of polynomial and transcendental equations, colocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 with a grade of "C" or better and Comp 110 or higher with a grade of "C" or better.

Math 351 (F, Even) 3 hrs. cr.
Linear Algebra
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite: Math 300 with a grade of "C" or better.

Math 361 (F) 3 hrs. cr.
Probability and Statistics I
Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260 with a grade of "C" or better.

Math 371 (F, Odd) 3 hrs. cr.
Introduction to Operations Research
(Writing Intensive)
Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260 with a grade of "C" or better and computer programming ability.

Math 421 (S, Odd) 3 hrs. cr.
Introduction to Advanced Calculus
Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300 with a grade of "C" or better.

Math 431 (S, Even) 3 hrs. cr.
Numerical Analysis
Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 with a grade of "C" or better and Comp 110 or higher with a grade of "C" or better.

Math 452 (S, Odd) 3 hrs. cr.
Mathematical Models *(Writing Intensive)*
Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 260 with a grade of "C" or better and Comp 110 or higher with a grade of "C" or better.

Math 462 (S, Even) 3 hrs. cr.
Probability and Statistics II
Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361 with a grade of "C" or better.

Math 498 (Demand) 1-3 hrs. cr.
Seminar in Mathematics
For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Math 499 (Demand) 1-3 hrs. cr.
Independent Study
Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

Music

Music Building 214, 625-9318

Faculty Havely - Head, Carnine, Clark, Elliott, Liu, Smith, Thelen, Wise

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

Bachelor of Arts with a Major in Music

		Semester Hours
Core Requirements (p. 33)		**51**
Computer Literacy Requirement - determined by music department		**2-3**
Foreign Language (four courses in one language)		**12**
Music Requirements		**65**
Mus 111	Music Theory	4
Mus 112	Music Theory*	4
Mus 182	Conducting Techniques*	2
Mus 211	Music Theory*	3
Mus 212	Music Theory*	3
Mus 240	Recital Attendance (8 semesters)	Cr.
Mus 311	History of Music*	3
Mus 312	History of Music*	3
Mus 420	Form and Analysis*	3
Mus 433	Instr & Vocal Arranging*	4
Mus 443	Advanced Choral Conducting*	2
Mus 444	Advanced Instrumental Conducting*	2
Mus 450	Senior Recital*	Cr.
Large Music Ensemble (8 semesters)***		8
Private study in one area (8 semesters)		16
Applied keyboard elective (Except keyboard majors)		8
(Keyboard majors must take 8 semester hours of music electives in lieu of the applied keyboard elective.)		**130-131****

*See Prerequisites
**Must include at least 40 upper division (300 - 400 level) hours.
***Must be taken the last eight semesters of residency.

Bachelor of Science in Education with a Major in Music

Grades Pre K-12 Certification
Plan B **Single Teaching Field**
Option 1 **Instrumental Emphasis**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Music Requirements		**64**
Mus 111	Music Theory	4
Mus 112	Music Theory**	4
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 231	String Techniques	1
Mus 232	Brass Techniques	1
Mus 233	Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a 2nd semester of Mus 232 or 234.)	1
Mus 234	Woodwind Techniques	1
Mus 240	Recital Attendance (7 semesters)	Cr.
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the Elementary Grades***	2
Mus 411	Marching Band Methods**	2
Mus 413	Instrumental Music Methods	2
Mus 420	Form and Analysis**	3
Mus 433	Inst. & Vocal Arranging**	4
Mus 444	Advanced Instrumental Conducting**	2
Mus 450	Senior Recital**	Cr.
Mus	Piano/Wind Instrument****	2

****(a) Instrumental major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).
(b) Keyboard major: two semester hours of private study on a wind instrument or the equivalent.

Private study as a major in one area (7 semesters)	14
Large Ensemble (7 semesters)*****	7

Brass, woodwind or percussion major: the seven semesters of large ensemble must be in band.
String Major: the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements (p . 161)	**40-41**
	152-153

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum, Area 3C.
**See Prerequisites
***Must be completed prior to the Professional Semester of supervised teaching.
*****Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Grades Pre K-12 Certification
Plan B **Single Teaching Field**
Option II **Vocal Emphasis**

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Music Requirements		**64**
Mus 111	Music Theory	4
Mus 112	Music Theory**	4
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 240	Recital Attendance (7 semesters)	Cr.
Mus 309	Choral Techniques	2
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the Elementary Grades***	2
Mus 409	Choral Literature	2
Mus 420	Form and Analysis**	3
Mus 433	Inst. & Vocal Arranging**	4
Mus 443	Advanced Choral Conducting*	2
Mus 450	Senior Recital**	Cr.
Mus	Piano/Voice****	6

****(a) Keyboard Major: six semester hours of private voice study or the equivalent.
(b) Voice Major: six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of four semesters of Mus 113).

Private study as a major in one area (7 semesters)	14
Concert Chorale (7 semesters)*****	7
Education Certification Requirements (p. 161)	**40-41**
	152-153

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.
**See Prerequisites
***Must be completed prior to the Professional Semester of supervised teaching.
*****Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Grades Pre K-12 Certification
Plan B **Single Teaching Field**
Option III **Double Certification**

	Semester Hours
Core Requirements (p. 33) 51*	**48**
Music Requirements	**81**
All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement.	86
Private study as an applied major in one primary area (7 semesters)	14
Private study as an applied elective in one secondary area (4 semesters)	8

A proficiency test in the secondary major area must be passed before graduation.

A senior recital will be required only in the primary applied area.

Education Certification Requirements (p. 161)	**40-41**
	169-170

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

Minor in Music

		Semester Hours
Mus 111	Music Theory	4
Mus 112	Music Theory	4
Large Ensemble		4
Applied Music Elective (2 Semesters)		2
Music Electives*		7
		21

*Must be made with prior approval of music adviser, 6 must be upper division.

Suggested Order of Study

Bachelor of Arts
Major Code 1005
Music Major

Freshman Year
1st Semester

Course		Hours
Mus 111	Music Theory	4
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Eng 101 Comp I]	3
CORE	[Mus 110 Music Apprec]	3
Psy 120	College Orientation	1
		15-16

2nd Semester

Mus 112	Music Theory	4
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
		14-15

Sophomore Year
1st Semester

Mus 211	Music Theory	3
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Hist 110 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
		16-17

2nd Semester

Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psy 100 Gen Psychology]	3
		20-21

Junior Year
1st Semester

Mus 420	Form, Analysis	3
Mus	Applied Music Major	2
Mus 444	Adv Instru Conducting	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Comm 100 Oral Comm]	3
Foreign Language		3
		15-16

2nd Semester

Mus 443	Adv Choral Conducting	2
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Art 110 or Th 110]	3
Foreign Language		3
CORE	[Eng 281 or 282 Lit]	3
		15-16

Senior Year
1st Semester

Mus 311	History of Music	3
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	1
CORE	[Phys 100 Fund of Phys Sci]	5
Foreign Language		3
Mus 433	Arranging	4
		19-20

2nd Semester

Mus 312	History of Music	3
Mus	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus 450	Senior Recital	Cr
Mus	Large Ensemble	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Educ 301	Use of Comp Software in Class (or computer course approved by music dept.)	3
CORE	[Anth 342 Compar Cultures]	3
Foreign Language		3
		18

[Department Recommendations]

Bachelor of Science in Education
Major Code 0855
Music Major
(Plan B) **Single Teaching Field**
Grades Pre K-12 Certification
Keyboard Major with Vocal Emphasis

Freshman Year
1st Semester

Course		Hours
Mus 111	Music Theory	4
Mus 227	Applied Music-Major Piano	1
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Educ 100	Orientation to Educ I	1
		16

2nd Semester

Mus 112	Music Theory	4
Mus 228	Applied Music Major Piano	2
Mus 166	Applied Music Voice	1
Mus 122	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Art 110 or TH 110]	3
		20

Sophomore Year
1st Semester
Take C-Base test.

Mus 310	Choral Techniques	2
Mus 211	Music Theory	3
Mus 227	Applied Music Major Piano	2
Mus 165	Applied Music Voice	1
Mus 122	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Hist 110 U.S. History]	3
		21

2nd Semester
Apply for admission to teacher education.

Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus 228	Applied Music Major Piano	2
Mus 166	Applied Music Voice	1
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Mus 409	Choral Literature	2
CORE	[Comm 100 Oral Comm]	3
CORE	[Bio 101 General Biology]	4
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		21

Junior Year
1st Semester
Pass media competencies.

Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 427	Applied Music Major Piano	2
Mus 365	Applied Music Voice	1
Mus 321	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		18

2nd Semester

Mus 443	Adv Choral Conducting	2
Mus 312	History of Music	3
Mus 428	Applied Music Major Piano	2
Mus 366	Applied Music Voice	1
Mus 322	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
CORE	[Anth 342 Comp Cultures]	3
CORE	[Hist 320 U.S. History]	3
Psy 305	Developmental Psychology	4
		21

Senior Year
1st Semester
Apply for admission to Student Teaching. All course work must be completed except Professional Semester courses.

Mus 321	Concert Chorale	1
Mus 427	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 301	Use of Comp Software in Class (or computer course approved by music dept.)	3
Educ 422	Tching Rding in Sec Sch	2
Mus 433	Arranging	4
		19

2nd Semester

Mus 335	Tching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

[Department Recommendations]
*Must be taken at night, semester prior to student teaching.

Bachelor of Science in Education

Major Code 0857
Music Major
Grades Pre K-12 Certification
(Plan B) Single Teaching Field
Keyboard Major with Instrumental Emphasis

Freshman Year
1st Semester

Course		Hours
Mus 111	Music Theory	4
Mus 227	Applied Music Major Piano	2
Mus 191	Marching Band	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1
		18

2nd Semester

Mus 112	Music Theory	4
Mus 228	Applied Music Major Piano	2
Mus 192	Concert Band	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Econ 180 Amer Econ Sys]	3
		19

Sophomore Year
1st Semester
Take C-Base test.

Mus 232/234	Brass/Woodwind Tech	1
Mus 211	Music Theory	3
Mus 227	Applied Music Major Piano	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
Mus 191	Marching Band	1
Psy 305	Developmental Psychology	4
		17

2nd Semester
Apply for admission to teacher education.

Mus 231/233	String/Percussion Tech	1
Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus 228	Applied Music Major Piano	2
Mus 192	Concert Band	1
Mus 240	Recital Attendance	Cr
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 281 or 282 Lit]	3
		22

Junior Year
1st Semester
Pass media competencies.

Mus 232/234	Brass/Woodwind Tech	1
Mus 411	Marching Band Methods	2
Mus 444	Adv Instru Conducting	2
Mus	App Mus Woodwind/Brass	1
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 427	Applied Music Major Piano	2
Mus 391	Marching Band	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		23

2nd Semester

Mus 231/233	String/Percussion Tech	1
Mus	App Mus Woodwind/Brass	1
Mus 312	History of Music	3
Mus 428	Applied Music Major Piano	2
Mus 392	Concert Band	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
CORE	[Psc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Art 110 or Th 110]	3
CORE	[Anth 342 Comp. Cultures]	3
		19

Senior Year
1st Semester
Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Mus 391	Marching Band	1
Mus 413	Instrumental Music Methods	2
Mus 427	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr

Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 301	Use of Comp Sftwr in Clsrm (or computer course approved by music dept.)	3
Educ 422	Techniques of Reading	2
Mus 433	Arranging	4
		21

2nd Semester

Mus 335	Tchng Mus in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

[Department Recommendations]
*Offered at night only, must be taken semester prior to student teaching.

Bachelor of Science in Education
Major Code 0854
Music Major
(Plan B) Single Teaching Field
Grades Pre K-12 Certification
Vocal Major

Freshman Year
1st Semester

Course		Hours
Mus 111	Music Theory	4
Mus 267	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Educ 100	Orientation to Educ I	1
		16

2nd Semester

Mus 112	Music Theory	4
Mus 268	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 122	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Art 110 or TH 110]	3
		20

Sophomore Year
1st Semester
Take C-Base Test.

Mus 310	Choral Techniques	2
Mus 113	Class Piano	1
Mus 211	Music Theory	3
Mus 267	Applied Music Voice	2
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. History]	3
		21

2nd Semester
Apply for admission to Teacher Education.

Mus 113	Class Piano	1
Mus 212	Music Theory	3
Mus 268	Applied Music Voice	2
Mus 122	Concert Chorale	1
Mus 182	Conducting Tech	2
Mus 240	Recital Attendance	Cr
Mus 409	Choral Literature	2
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Comm]	3
Psy 100	General Psychology	3
		21

Junior Year
1st Semester
Pass media competencies.

Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 467	Applied Music Voice	2
Mus 325	Applied Music Keyboard	1
Mus 321	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Anth 342 Comp Cultures]	3
		21

2nd Semester

Mus 312	History of Music	3
Mus 468	Applied Music Voice	2
Mus 326	Applied Music Keyboard	1
Mus 322	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 443	Adv Choral Conducting	2
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 305	Developmental Psychology	4
CORE	[Hist 320 U.S. History]	3
		21

Senior Year
1st Semester
Apply for student teaching. All courses must be completed except for Professional Semester.

Mus 321	Concert Chorale	1
Mus 467	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Mus 433	Arranging	4
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 301	Use of Comp Sftwr in Clsrm (or computer course approved by music dept.)	3
Educ 422	Tchng Rdng in Sec Sch	2
Psy 310	Education Psychology	2
		19

2nd Semester

Mus 335	Tchng Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

*Offered at night only, must be taken semester prior to student teaching.
[Department Recommendations]

Bachelor of Science in Education
Major Code 0853
Music Major
Grades Pre K-12 Certification
(Plan B) Single Teaching Field
Instrumental Major

Freshman Year
1st Semester

Course		Hours
Mus 111	Music Theory	4
Mus	Applied Music Major	2
Mus 113	Class Piano	1
Mus 191	Marching Band (1)	
OR		
Mus 151	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1
		19

2nd Semester

Mus 112	Music Theory	4
Mus	Applied Music Major	2
Mus 113	Class Piano	1
Mus 192	Concert Band (1)	
OR		
Mus 152	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Art 110 or TH 110]	3
		20

Sophomore Year
1st Semester
Take C-Base test.

Mus 113	Class Piano	1
Mus 211	Music Theory	3
Mus	Applied Music Major	2
Mus 191	Marching Band (1)	
OR		
Mus 151	Orchestra (1)	1
Mus 232/234	Brass/Woodwind Tech	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Comm 100 Oral Comm]	3
		20

2nd Semester
Apply for admission to Teacher Education.

Mus 113	Class Piano	1
Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus	Applied Music Major	2
Mus 231/233	String/Percussion Tech	1
Mus 192	Concert Band (1)	
OR		
Mus 152	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
CORE	[Bio 101 General Biology]	4
Psy 305	Developmental Psychology	4
		21

Junior Year
1st Semester
Pass Media Competencies.

Mus 232/234	Brass/Woodwind Tech	1
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus	Applied Music Major	2
Mus 411	Marching Band Methods	2
Mus 391	Marching Band (1)	
OR		
Mus 351	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
Mus 444	Adv Instru Conducting	2
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		22

2nd Semester

Mus 231/233	String/Percussion Tech	1
Mus 312	History of Music	3
Mus	Applied Music Major	2
Mus 392	Concert Band (1)	
OR		
Mus 352	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Anth 342 Compar Cultures]	3
Educ 422	Tchng Rdng in Sec Sch	2
		17

Senior Year
1st Semester
Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Mus 391	Marching Band (1)	
OR		
Mus 351	Orchestra (1)	1
Mus 413	Instrumental Music Methods	2
Mus	Applied Music Major	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Mus 433	Arranging	4
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund Phys Sci]	5
Educ 301	Use of Comp Sftwr in Clsrm (or computer course approved by music dept.)	3
CORE	[Hist 320 U.S. History]	3
		22

2nd Semester

Mus 335	Tching Music in Sec Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

*Offered at night only, must be taken semester prior to student teaching.

[Department Recommendations]

For additional information contact:
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Course Descriptions

Mus 102, 302, 202, 402 (S) 1 hr. cr.
Opera or Musical Theatre Performance
Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. *(Students may not receive credit from both the theatre department and music department for the same production.)*

Mus 110 (F, S) 3 hrs. cr.
Music Appreciation
Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Mus 111 (F) 4 hrs. cr.
Music Theory
Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of instructor.

Mus 112 (S) 4 hrs. cr.
Music Theory
Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

Mus 113 (F, S) 1 hr. cr.
Class Piano
Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material studied varies in accordance with educational purpose.

Mus 121, 321, 122, 322 Mus (F, S) 1 hr. cr.
Concert Chorale
Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 133 (F) 2 hrs. cr.
Opera
History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular opera selected for production the spring semester of that year.

Mus 141, 341, 142, 342 (F, S) 1 hr. cr.
Jazz Band
A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor. Each class may be repeated four times for credit. Corequisite: Mus 191, 391, 192 or 392.

Mus 151, 351, 152, 352 (F, S) 1 hr. cr.
Orchestra
Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated four times for credit.

Mus 161, 361, 162, 362 (F, S) 1 hr. cr.
Southern Exposure
Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated four times for credit. Corequisite: Mus 121, 122, 321 or 322.

Mus 171, 371, 172, 372 (F, S) 1 hr. cr.
Brass Choir
Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated four times for credit.

Mus 182 (S) 2 hrs. cr.
Conducting Techniques
Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 211.

Mus 191, 391 (F) 1 hr. cr.
Marching Band
Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 192, 392 (S) 1 hr. cr.
Concert Band
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 211 (F) 3 hrs. cr.
Music Theory
Secondary dominant functions, augmented sixth chords, advanced chromatic and enharmonic modulation, introduction to contemporary styles and short original compositions. Prerequisite: Mus 112.

Mus 212 (S) 3 hrs. cr.
Music Theory
A study of selected contemporary styles: pantriadie, bitonal and polychordal, quartal harmony, pandiatonicism, serial techniques and short original compositions. Prerequisite: Mus 211.

Mus 215 (Demand) 2 hrs. cr.
Vocal Pedagogy
An introduction to the science and teaching of singing. Emphasis is placed upon the study of the physiology and anatomy, breathing and phonation, and acoustics of the vocal instrument as well as the pedagogical approaches to training the singing voice.

Mus 219 (Demand) 2 hrs. cr.
Vocal Diction and Literature
Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.

Mus 231 (S) 1 hr. cr.
String Techniques
Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 232 (F) 1 hr. cr.
Brass Techniques
Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 233 (S) 1 hr. cr.
Percussion Techniques
(Not open to percussion majors)
Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 234 (F) 1 hr. cr.
Woodwind Techniques
Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.

Mus 240 (F, S) 0 hrs. cr.
Recital Attendance
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester. Corequisite: Music major *(major code of 0856, 0866, or 1005.)*

Mus 243 (F) 3 hrs. cr.
Musical Theatre
History, production and performance of musical theatre. Academic concentration on scenes from musicals with emphasis on acting, music, and dance techniques needed for musical productions, and focus upon representative musicals from the past fifty years and more specifically on the particular musical selected for production in the spring semester of that school year. Course also offered under Th 243.

Mus 298 (Demand) 1-3 hrs. cr.
Selected Topics in Music
Study of special topics in music not included in another course. Prerequisite: Permission of instructor.

Mus 309 (F) 2 hrs. cr.
Choral Techniques
Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Mus 182.

Mus 311 (F) 3 hrs. cr.
History of Music
General survey of history of music from Greek period to 18th century. Prerequisite: Mus 211.

Mus 312 (S) 3 hrs. cr.
History of Music
From 18th century to the present. Score reading required. Prerequisite: Mus 211.

Mus 332 (F, S) 2 hrs. cr.
Music for the Elementary School
Methods of teaching music in the elementary classroom and a study of materials to be used.

Mus 333 (Demand) 2 hrs. cr.
Music for the Elementary Grades
Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Mus 409 (S) 2 hrs. cr.
Choral Literature
Study of choral and vocal chamber literature from the early Renaissance through the twentieth century. Concentrate on performance styles of various types of choral literature. Prerequisite: Mus 211.

Mus 411 (F) 2 hrs. cr.
Marching Band Methods
Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band. Corequisite: Mus 391.

Mus 413 (F) 2 cr. hrs.
Instrumental Music Methods
Acquaints instrumental music education majors with the administration and supervision of the instrumental program through the high school level. Content includes curriculum, schedules, budget, instructional techniques, classroom management, public relations, philosophy, and psychology as they relate to instrumental music education. Prerequisite: Mus 182.

Mus 420 (F) 3 hrs. cr.
Form and Analysis
Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212.

Mus 433 (F) 4 hrs. cr.
Instrumental and Vocal Arranging
An in-depth study of wind, string, and percussion instruments. Scoring for various instrumental and vocal combinations. Prerequisite: Mus 212.

Mus 443 (S) 2 hrs. cr.
Advanced Choral Conducting
Conducting techniques specifically related to choral music. Prerequisite: Mus 182

Mus 444 (F) 2 hrs. cr.
Advanced Instrumental Conducting Techniques
Conducting skills, including irregular beat patterns, advance technical problems, and methods developed for solving them. Prerequisite: Mus 182.

Mus 450 (F,S) 0 hrs. cr.
Senior Recital
A solo recital is required of all music majors. The recital is to be given within the last year of residency. Corequisite: Mus 417, 427, 437, 447, 467, 418, 428, 438, 448, 458, or 468.

Mus 498 (Demand) 1-3 hrs. cr.
Seminar in Music
For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.

Mus 499 (Demand) 1-3 hrs. cr.
Independent Study
Designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Prerequisite: See "General Regulations" in the catalog.

Applied Music Elective (Private Lessons)

Private study in: Brass, Keyboard, Percussion, String, Woodwind and Voice. All applied music offerings may be repeated twice for credit.

Mus 115	Applied Music Brass Elective	1 hr. cr.
Mus 125	Applied Music Keyboard Elective	1 hr. cr.
Mus 135	Applied Music Percussion Elective	1 hr. cr.
Mus 145	Applied Music String Elective	1 hr. cr.
Mus 155	Applied Music Woodwind Elective	1 hr. cr.
Mus 165	Applied Music Voice Elective	1 hr. cr.
Mus 116	Applied Music Brass Elective	1 hr. cr.
Mus 126	Applied Music Keyboard Elective	1 hr. cr.
Mus 136	Applied Music Percussion Elective	1 hr. cr.
Mus 146	Applied Music String Elective	1 hr. cr.
Mus 156	Applied Music Woodwind Elective	1 hr. cr.

Mus 166	Applied Music Voice Elective	1 hr. cr.
Mus 315	Applied Music Brass Elective	1 hr. cr.
Mus 325	Applied Music Keyboard Elective	1 hr. cr.
Mus 335	Applied Music Percussion Elective	1 hr. cr.
Mus 345	Applied Music String Elective	1 hr. cr.
Mus 355	Applied Music Woodwind Elective	1 hr. cr.
Mus 365	Applied Music Voice Elective	1 hr. cr.
Mus 316	Applied Music Brass Elective	1 hr. cr.
Mus 326	Applied Music Keyboard Elective	1 hr. cr.
Mus 336	Applied Music Percussion Elective	1 hr. cr.
Mus 346	Applied Music String Elective	1 hr. cr.
Mus 356	Applied Music Woodwind Elective	1 hr. cr.
Mus 366	Applied Music Voice Elective	1 hr. cr.
Mus 117	Applied Music Brass Elective	2 hrs. cr.
Mus 127	Applied Music Keyboard Elective	2 hrs. cr.
Mus 137	Applied Music Percussion Elec	2 hrs. cr.
Mus 147	Applied Music String Elective	2 hrs. cr.
Mus 157	Applied Music Woodwind Elective	2 hrs. cr.
Mus 167	Applied Music Voice Elective	2 hrs. cr.
Mus 118	Applied Music Brass Elective	2 hrs. cr.
Mus 128	Applied Music Keyboard Elective	2 hrs. cr.
Mus 138	Applied Music Percussion Elec	2 hrs. cr.
Mus 148	Applied Music String Elective	2 hrs. cr.
Mus 158	Applied Music Woodwind Elect	2 hrs. cr.
Mus 168	Applied Music Voice Elective	2 hrs. cr.
Mus 317	Applied Music Brass Elective	2 hrs. cr.
Mus 327	Applied Music Keyboard Elective	2 hrs. cr.
Mus 337	Applied Music Percussion Elec	2 hrs. cr.
Mus 347	Applied Music String Elective	2 hrs. cr.
Mus 357	Applied Music Woodwind Elec	2 hrs. cr.
Mus 367	Applied Music Voice Elective	2 hrs. cr.
Mus 318	Applied Music Brass Elective	2 hrs. cr.
Mus 328	Applied Music Keyboard Elective	2 hrs. cr.
Mus 338	Applied Music Percussion Elec	2 hrs. cr.
Mus 348	Applied Music String Elective	2 hrs. cr.
Mus 358	Applied Music Woodwind Elective	2 hrs. cr.
Mus 368	Applied Music Voice Elective	2 hrs. cr.
Elective in Jazz Improvisation		
Mus 114		1 hr. cr.
Mus 214		2 hrs. cr.

Applied Music Major (Private Lessons)
Private study in Brass, Keyboard, Percussion, String, Woodwind and Voice. All applied music offerings may be repeated twice for credit.

Mus 217	Applied Music Brass Major	2 hrs. cr.
Mus 227	Applied Music Keyboard Major	2 hrs. cr.
Mus 237	Applied Music Percussion Major	2 hrs. cr.
Mus 247	Applied Music String Major	2 hrs. cr.
Mus 257	Applied Music Woodwind Major	2 hrs. cr.
Mus 267	Applied Music Voice Major	2 hrs. cr.
Mus 218	Applied Music Brass Major	2 hrs. cr.
Mus 228	Applied Music Keyboard Major	2 hrs. cr.
Mus 238	Applied Music Percussion Major	2 hrs. cr.
Mus 248	Applied Music String Major	2 hrs. cr.
Mus 258	Applied Music Woodwind Major	2 hrs. cr.
Mus 268	Applied Music Voice Major	2 hrs. cr.
Mus 417	Applied Music Brass Major	2 hrs. cr.
Mus 427	Applied Music Keyboard Major	2 hrs. cr.
Mus 437	Applied Music Percussion Major	2 hrs. cr.
Mus 447	Applied Music String Major	2 hrs. cr.
Mus 457	Applied Music Woodwind Major	2 hrs. cr.
Mus 467	Applied Music Voice Major	2 hrs. cr.
Mus 418	Applied Music Brass Major	2 hrs. cr.
Mus 428	Applied Music Keyboard Major	2 hrs. cr.
Mus 438	Applied Music Percussion Major	2 hrs. cr.
Mus 448	Applied Music String Major	2 hrs. cr.
Mus 458	Applied Music Woodwind Major	2 hrs. cr.
Mus 468	Applied Music Voice Major	2 hrs. cr.

Corequisite: Music major (major code of 0853, 0854, 0855, 0856, 0857, 0866, or 1005.)

Paralegal Studies

Webster Hall 245, 625-9564

Faculty Miller - Chair, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. This option is recommended only for post-graduate students or students who have already completed the Core Curriculum. The required courses and suggested electives are listed under the requirements for the minor. Students must have an adviser in paralegal studies.

Minor in Paralegal Studies

		Semester Hours
PLS 201	**Intro to Legal Assistance**	**3**
PLS 302	**Legal Research**	**3**
Electives from the following:		**15**
PLS 298	Topics in Paralegal Studies	3
PLS 311	Property*	3
PLS 312	Civil Litigation*	3
PLS 320	Family Law*	3
PLS 401	Wills, Trusts and Probate*	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
PSc 310	Law, Society & Judicial Process	3
PSc 431	Constitutional Law I	3
PSc 432	Constitutional Law II	3
PLS 491	Internship**	3
PLS 498	Senior Seminar**	3
PLS 499	Independent Study**	3
OR One of the following:		
Comm 310	Communications Law	3
LE 250	Criminal Law	3
PSc 322	International Law	3
GB 411	Labor Law	3
		21

*Highly Recommended
**See Prerequisites

Suggested Order of Study

Associate of Arts
Major Code 7999
Emphasis in Paralegal Studies
(This is a general associate of arts degree, NOT a paralegal degree)

Freshman Year
1st Semester

Course		Hours
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
CORE	[Eng 101 Comp I]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 120	College Orientation	1
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Bio 101 General Biology]	4
PLS	Upper Division Elective	3
		16

Sophomore Year
1st Semester

CORE	[Econ 180, Soc 110 or Psy 100]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Humanities and Fine Arts]	3
PLS	Upper Division Electives	6
		17

2nd Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Literature]	3
CORE	[Humanities and Fine Arts]	3
PLS 491	Internship	3
PLS	Upper Division Elective	3
		15

[Department Recommendations]

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact:
Dr. Michael Yates
Office: Webster Hall 234
Phone: 625-9333
E-Mail: yates-m@mail.mssc.edu

Course Descriptions

PLS 201 (F) 3 hrs. cr.
Introduction to Legal Assistance
American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

PLS 298 (Demand) 3 hrs. cr.
Topics in Paralegal Studies
Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

PLS 302 (F, Odd) 3 hrs. cr.
Legal Research
Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

PLS 311 (S, Odd) 3 hrs. cr.
Property
Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as deeds and contracts.

PLS 312 (S, Even) 3 hrs. cr.
Civil Litigation
Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of procedure, and the preparation of pertinent legal forms.

PLS 320 (S, Even) 3 hrs. cr.
Family Law
Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the preparation of pertinent legal forms.

PLS 401 (F, Even) 3 hrs. cr.
Wills, Trusts and Probate
Law of wills, trusts and intestate succession; includes analysis of the administration and probate of estates and the preparation of pertinent legal forms.

PLS 491 (Demand) 3 hrs. cr.
Internship
An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials) as approved by department head. Prerequisite: 12 hrs. of paralegal studies and/or consent of instructor.

PLS 498 (Demand) 3 hrs. cr.
Senior Seminar
Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

PLS 499 1-2-3 hrs. cr.
Independent Study
Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0.

Philosophy

Hearnes Hall 312, 625-9659

Faculty Spector - Head, Brown

Philosophy deals with basic questions from all areas of life and thought—science, religion, art, morality and politics—and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management, and theological seminaries.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, Phil 312, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.

For additional information contact:
Dr. Stephen Spector
Office: Hearnes Hall 314
Phone: 625-9535
E-Mail: spector-s@mail.mssc.edu

Course Descriptions

Phil 140 3 hrs. cr.
Critical Thinking
Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

Phil 201 3 hrs. cr.
Introduction to Philosophy
Comparative survey of major types of philosophy and of representative problems in philosophy. (Satisfies 3 hrs. of Core Curriculum requirements in Area 2C Humanities and Fine Arts.)

Phil 212 3 hrs. cr.
Ethics
Exploration of the problems of value and personal moral standards, comparative survey of major ethical systems and evaluation of the chief ethical struggles in contemporary society.(Satisfies 3 hrs. of Core Curriculum requirements in Area 2C Humanities and Fine Arts.)

Phil 298 3 hrs. cr.
Topics in Philosophy
Studies in a variety of philosophical subjects. Topic open.

Phil 301 3 hrs. cr.
Ancient Philosophy
Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 302 3 hrs. cr.
Modern Philosophy
A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 312 3 hrs. cr.
Biomedical Ethics
A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources, and medical experimentation.

Phil 320 3 hrs. cr.
Comparative Religion
A philosophical and historical survey, emphasizing the world's major living religions. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Phil 420 — 3 hrs. cr.
Philosophy of Science
Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science, and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 498 — 3 hrs. cr.
Seminar in Philosophy
Comprehensive analysis of selected topics in philosophy. For upper division students.

Phil 499 — 1-3 hrs. cr.
Independent Study
Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.

Physics and Pre-Engineering

Reynolds Hall 210, 625-9376

Faculty Sloan - Head, Chelf, Knapp

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics, engineering and many other discipline. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 200).

Bachelor of Science with a Major in Physics

		Semester Hours
Core Requirements (p. 33) 51*		**43**
Physics Requirements		**39**
Phys 160	General Physics I**	3
Phys 270	General Physics II**	5
Phys 280	General Physics III**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 401	Electricity & Magnetism**	4
Phys 452	Quantum Mechanics**	
OR		
Phys 480	Selected Topics in Physics & Engineering	3
Phys 498	Seminar	1
Supporting Requirements		**26**
Chem 101	General Chemistry I**	5
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Math 322	Differential Equations**	3
Comp 110	Programming I	3
Electives***		16
		124**

*Required physics, chemistry and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.
**See Prerequisites
***Suggested Electives (Chem 102, Comp 210, Math 351, Math 431 and Phys 480)
****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Physics

Grades 9-12 Certification
Unified Science with a Physics Endorsement

		Semester Hours
Core Requirements (p. 33) 51*		**36**
Physics Requirements		**25**
Phys 280	General Physics III (5)	2
Phys 301	Modern Physics**	4
Phys 312	Statics**	3
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 498	Seminar	2
Supporting Requirements		**66**
Phil 420	Philosophy of Science	3
Bio 101	General Biology	4
Bio 112	Botanical Survey**	4
Bio 122	Zoological Survey**	4
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Phys 160	General Physics I**	3
Phys 270	General Physics II**	5
Phys 280	General Physics III (5)	3
Geol 110	Intro to Geology	5
Geol 180	Intro to Meteorology	3
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Comp 110	Programming I	3
Select one:		
Bio 312	Environmental Biology	4
Bio 402	General Ecology	4
Bio 481	Aquatic Ecology	4
Geol 300	Environmental Geology	4
Education Certification Requirements (p. 161)		**41-42**
		168-169

*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.
**See Prerequisites

Minor in Physics

		Semester Hours
Phys 160	General Physics I	3
Phys 270	General Physics II	5
Phys 280	General Physics III	5
Physics	Upper Division Electives (excluding Phys 300)	8
		21

Suggested Order of Study

Bachelor of Science
Major Code 1902
Physics Major

Freshman Year
1st Semester

Course		Hours
Math 150	Calculus I	5
Chem 101	Gen Chem I (Alg & Trig)	5
CORE	[Eng 101 Comp I]	3
Phys 160	General Physics I	3
Psy 120	College Orientation	1
		17

2nd Semester

Phys 270	Gen Physics II (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 General Chem II]	5
CORE	[Eng 102 Comp II]	3
		18

Sophomore Year
1st Semester

Phys 280	Gen Physics III (Phys 270)	5
Math 260	Calculus III (Math 250)	5
Comp 110	Programming I	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 103 Lifetime Wellness]	2
		18

2nd Semester

Phys 322	Classical Mechanics (3)	
OR		
Phys 341	Thermal Physics (4)	3-4
Phys 372	Electronic Circuits	4
Math 322	Differential Equations	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Kine 101 Physical Activity]	1
		17-18

Junior Year
1st Semester

Phys 301 Modern Physics		4
Phys 381 Intermediate Physics Lab (3)		
OR		
Phys 401 Electricity & Magnetism (4)		3-4
CORE[Bio 101 General Biology]		4
CORE[Humanities and Fine Arts]		3
CORE	[Psy 100 Gen Psychology]	
OR		
CORE	[Soc 110 Sociology]	3
		17-18

2nd Semester

Phys 341	Thermal Physics (4)	
OR		
Phys 322	Classical Mechanics (3)	4-3
Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Math	Elective	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
		16-15

Senior Year
1st Semester

Phys 401	Electricity & Magnetism (4)	
OR		
Phys 381	Intermediate Phys Lab (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Phys or Math Elective		3
Electives		3
		16-15

2nd Semester

Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Phys 498	Seminar	1
CORE	[International Cultural Stu]	3
Electives		9
		16

(Prerequisites)
[Department Recommendations]

For additional information contact:
Mr. Marion Sloan
Office: Reynolds Hall 213
Phone: (417) 625-9616
E-Mail: sloan-m@mail.mssc.edu

Course Descriptions

Phys 100 (F, S, SS) 5 hrs. cr.
Fundamentals of Physical Science
Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Math 20 with a grade of "C" or better.

Phys 101 (F, S) 5 hrs. cr.
Physical Science for Elementary Teachers
Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods and one three-hour lab per week. Prerequisite: Math 111.

Phys 102 (F, S) 1 hr. cr.
Physical Science Laboratory
Experiments related to topics studied in Physics 100 will be conducted. One three-hour lab per week. Prerequisite or corequisite: Physics 100.

Phys 151 (F, S, SS) 5 hrs. cr.
Elementary College Physics I
Mechanics, rotational dynamics, properties of matter, heat, wave motion and sound. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

Phys 152 (S) 4 hrs. cr.
Elementary College Physics II
Electricity, circuits, magnetism, optics, relativity, radioactivity, and nuclear reactions. Three hours of lecture and one 2-hr. lab per week. Prerequisite: Phys 151.

Phys 160 (F, S) 3 hrs. cr.
General Physics I
Introductory study of physics covering vector techniques, geometrical and trigonometrical applications in physics, kinematics and dynamics of particles in one, two, and three dimensions, and an introduction to work and energy. Three hours of lecture per week. Prerequisite: Math 140; corequisite: Math 150.

Phys 270 (F, S) 5 hrs. cr.
General Physics II
Introductory study of energy, momentum, kinematics and dynamics of rigid bodies, equilibrium, fluids, waves, and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150, Phys 160; corequisite: Math 250.

Phys 280 (F, S) 5 hrs. cr.
General Physics III
Introductory study of electricity, magnetism, and geometrical and physical optics. Four hours of lecture and one 3-hr. lab/recitation class per week. Prerequisite: Phys 270, Math 250.

Phys 298 (F, S) 1-3 hrs. cr.
Selected Topics in Physical Science
Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Phys 300 (Demand) 3 hrs. cr.
Astronomy
Study of our solar system and universe including the following topics: the solar system, Kepler's laws, celestial coordinates and observing. Hertzprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

Phys 301 (F) 4 hrs. cr.
Modern Physics
Special theory of relativity, wave-particle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 280. Corequisite: Math 260.

Phys 312 (SS) 3 hrs. cr.
Statics
Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 160.

Phys 322 (S, Even) 3 hrs. cr.
Classical Mechanics
Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation and rigid bodies. Three hrs. lecture per week. Prerequisite: Phys 270, Corequisite: Math 322 or permission of instructor.

Phys 341 (S, Odd) 4 hrs. cr.
Thermal Physics
Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Phys 270; corequisite: Math 260.

Phys 372 (S) 4 hrs. cr.
Electronic Circuits
Ohm's law, Kirchoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state AC circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 280, Corequisite: Math 260.

Phys 381 (Demand) 3 hrs. cr.
Intermediate Physics Laboratory
(Writing Intensive)
Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

Phys 401 (F, Odd) 4 hrs. cr.
Electricity and Magnetism
Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 280.

Phys 452 (Demand) 3 hrs. cr.
Quantum Mechanics
Time independent Schroedinger equation, eigenfunctions, expectation values, differential operators, pertubation theory, multielectron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

Phys 480 (Demand) 3 hrs. cr.
Selected Topics in Physics and Engineering
One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, quantum mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 498 (F, S) 1-3 hrs. cr.
Seminar
Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 499 (F, S) 1-3 hrs. cr.
Independent Study
Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

Political Science

Webster Hall, 625-9564

Faculty Miller - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis - certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other disciplines. In addition, see page 121 for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

Bachelor of Arts with a Major in Political Science

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirement - determined by social science department		**2-3**
Foreign Language (four courses in one language)		**12**
Political Science Requirements		**36**
PSc 120	Gov't: U.S./State/Local	3
PSc 300	Intro to Pol Sci Methods	3
PSc 498	Seminar in Political Science	
OR		
PSc 497	Capital Internship	3
Select one course from each of the following four areas:		**12**
U.S. Politics (3)		
PSc 301	Political Parties & Elections	
PSc 302	Public Opinion & Pressure Groups	
PSc 311	American Presidency	
PSc 312	Legislative Process	
State and Local Government (3)		
PSc 320	State Government	
PSc 341	Municipal Government	
PSc 342	Public Policy	
PSc 421	Public Administration	
International Politics (3)		
PSc 321	International Relations	
PSc 331	Comparative Government: Europe	
PSc 332	Comparative Government: Latin America	
PSc 411	Political Theory	
PSc 412	Contemporary Political Thought	
Law (3)		
PSc 310	Law, Society and the Judicial Process	
PSc 322	International Law	
PSc 431	Constitutional Law I	
PSc 432	Constitutional Law II	
Political Science Electives**		15
Electives		**25-26**
		124* **

*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Political Science Emphasis
Grades 9-12 Certification
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**33**
Political Science Requirements		**15**
PSc 120	Gov't: U.S./State/Local	3
PSc	Upper Division Electives	12
Supporting Requirements		**36**
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization to 1660	3
Hist 140	Western Civilization Since 1660	3
Hist	Upper Division U.S.** (not 320)	6
Hist	Upper Division Asian**	3
Soc 110	Intro to Sociology	3
Soc	Upper Division Elective**	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
Econ 180	Amer Econ System	3
Electives		**3-4**
Education Certification Requirements (p. 161)		**40-41**
		128

*Required political science, history, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.
**See Prerequisites

Minor in Political Science

		Semester Hours
PSc 120	Gov't: U.S./State/Local	3
PSc	Electives*	18
		21

*Must be chosen with approval of a political science adviser.

Minor in Public Administration

Required:

PSc 320	State Government	
OR		
PSc 341	Municipal Government	3
PSc 421	Public Administration	3
Acct 201	Accounting	3
MM 350	Principles of Management	3
MM 352	Human Resource Management	3
		15

Choose three:

Comm 300	Organizational Communications	3
Math 302	Calculus of Mgmt and Social Sciences	3
PSc 320	State Government **	3
PSc 341	Municipal Government**	3
PSc 342	Public Policy	3
Acct 325	Managerial Accounting	3
Econ 350	Financial Management	3
Soc 402	Community (WI)	3
Geog 457	Urban Geography	3
PSc 496	Internship in Political Science	3
		9
Total for Minor (PA)		**24**

**(if not taken in PA minor core)

Additional requirements:
For students in majors without a statistics/research requirement, one of the following courses must be completed. Hours earned in either of the courses are not applicable to the minor in public administration.

PSc 300	Introduction to Political Science Methods
OR	
GB 321	Business Statistics I

Suggested Order of Study

Bachelor of Arts
Major Code 2207
Political Science Major

Freshman Year
1st Semester

Course		Hours
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		16

2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[Hist 120 U.S. 1877-Present]	
OR		
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3
		16

Sophomore Year
1st Semester

PSc 120	Gov't: U.S./State/Local*	3
CORE	[English Lit]	3
Foreign Language		3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
		17

2nd Semester

CORE	[Econ 201 Prin of Econ-Macro]	3
PSc	[Upper Division Elective approved by adviser]	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
Electives		2
		14

Junior Year
1st Semester

PSc	[Upper Division]	6
CORE	[International Cultural Stu]	3
[Computer Literacy course selected with adviser's approval]		3
CORE	[Humanities and Fine Arts]	3
		15

2nd Semester

PSc	[Upper Division]	9
Electives		7
		16

Senior Year
1st Semester

PSc	[Upper Division Electives]	9
Electives	[Upper Division]	6
		15

2nd Semester

PSc	[Upper Division Elective]	6
Electives	[Upper Division]	10
		16

*Also meets a Core Curriculum requirement.
[Department Recommendations]

For additional information contact:
Dr. Donald R. Youst
Office: Webster Hall 232
Phone: 625-9795
E-Mail: youst-d@mail.mssc.edu

Course Descriptions

PSc 120 (F, S) 3 hrs. cr.
Government: U.S., State & Local
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees and prerequisite for all political science courses. Successful completion of this course fulfills the Missouri state requirements in constitutional study.

PSc 298 (Demand) 3 hrs. cr.
Topics in Political Science
Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each semester. Students are encouraged to suggest possible course topics to the political science faculty.

PSc 300 3 hrs. cr.
Introduction to Political Science Methods
The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in nonlibrary types of research projects.

PSc 301 (F, Even) 3 hrs. cr.
Political Parties and Elections
(Writing Intensive)
Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

PSc 302 (F, Odd) 3 hrs. cr.
Public Opinion and Pressure Groups
(Writing Intensive)
Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

PSc 310 (Demand) 3 hrs. cr.
Law, Society and the Judicial Process
(Writing Intensive)
American legal system viewed from a social and political as well as legal perspective. Focus on the structure and organization of courts, the processing of civil and criminal cases and the behavior of judges, lawyers and other participants in the judicial process.

PSc 311 (Summer) 3 hrs. cr.
American Presidency
Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

PSc 312 (S, Even) 3 hrs. cr.
Legislative Process
Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the Missouri General Assembly.

PSc 320 (S, Odd) 3 hrs. cr.
State Government
General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

PSc 321 (F, Even) 3 hrs. cr.
International Relations
Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

PSc 322 (S, Odd) 3 hrs. cr.
International Law
Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

PSc 331 (F, Odd) 3 hrs. cr.
Comparative Government: Europe
An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

PSc 332 (S, Even) 3 hrs. cr.
Comparative Government: Latin America
Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

PSc 341 (S, Even) 3 hrs. cr.
Municipal Government
Structure, legal status, functions and organization of city, town and village government in the United States.

PSc 342 (F, Even) 3 hrs. cr.
Public Policy
An introductory survey of the formulation, execution and evaluation of public policy in the United States.

PSc 398 (F) 1 hr. cr
Political Discourse
A topics and event driven, open forum for examination of current issues at the national, state and local levels of government. The course is conducted as a discussion group with the instructor providing directed reading assignments and presentations on discursive practices, traditions and models within the discipline as appropriate. May be repeated one time for credit.

PSc 411 (F, Odd) 3 hrs. cr.
Political Theory Selected
Western political philosophies from early recorded history through the present time.

PSc 412 (S, Even) 3 hrs. cr.
Contemporary Political Thought
Twentieth century political ideas.

PSc 421 (F, Odd) 3 hrs. cr.
Public Administration
Administrative aspects of government; surveys the major subfields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law.

PSc 431 (F, Even) 3 hrs. cr.
Constitutional Law I
Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.

PSc 432 (S, Odd) 3 hrs. cr.
Constitutional Law II
Legal issues concerning the Bill of Rights and the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process, and equal protection clauses.

PSc 496 (Demand) 3-8 hrs. cr.
Internship in Political Science
Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.

PSc 497 (Demand) 8 hrs. cr.
Capital Internship
Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. The student will live and work in the capital from the opening of the legislative session until its conclusion or the last day of MSSC's spring semester.

PSc 498 (Demand) 3 hrs. cr.
Seminar in Political Science *(Writing Intensive)*
Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

PSc 499 (F, S) 1-2-3-4 hrs. cr.
Independent Study
For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

Pre-Law

Webster Hall 234, 625-9333

Faculty Miller - Chair, Yates

There is no special course of study required for pre-law students at Southern. There is also no formal major in pre-law. However, the College offers a variety of activities such as Law School Admissions Test (LSAT) training sessions, field trips to law schools and on-campus visits by law school recruiters to help students prepare for and select a law school. Although there is no pre-law major at Southern, there are a variety of course offerings which would be helpful to a student desiring to enter law school. Courses which help develop skills in reading comprehension and analytical thinking are especially important. Courses which acquaint the student with legal vocabulary and "hypothetical" exam questions which are the staple of law school exams, may also be useful.

The curriculum for pre-law students should be jointly planned by the student and one of the pre-law advisers. The student may major in almost any discipline emphasizing development of the academic skills necessary to prepare the student for performing well on the LSAT and for the rigorous study required in law school. The major will also be determined by the student's general area of academic interest and by the type of law, such as government service, private practice, corporate law or criminal prosecution or defense which the student plans to practice.

Preprofessional

Police Academy 101, 625-9328

Associate of Arts Degree
This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Social Science

Webster Hall 245, 625-9564

Faculty Miller - Chair, Cebula, Geier, Gubera, Laas, Locher, Markman, St. Clair, Sale, Schmidt, Simpson, Tannenbaum, Teverow, Wells, Yates, Youst

Within the social sciences are the disciplines of anthropology, geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor, or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences except anthropology. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

Minor in Social Science

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
PSc 120	Gov't: U.S./State/Local	3
Geog	Elective	3
Soc or Anth	Elective (100 - 200 level)	3
Select three (3) social science courses at the 300 - 400 level (other than Hist 320)		9
		24

Fifteen hours of these requirements apply to the Core Curriculum.

Minor in Social Studies for Secondary Education

Certification for Grades 9-12

This minor meets social studies requirements for certifying secondary education majors to teach grades 9 through 12. Students electing this minor must have a social sciences faculty adviser.

Social Studies

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
Elective in American History		3
PSc 120	Gov't: U.S./State/Local	3
Hist 130	Western Civilization	3
Hist 140	Western Civilization	3
Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3
		24

Programs and Degree Offerings

See Geography (p. 96); History, (p. 98); Paralegal Studies, (p. 114); Political Science, (p. 118); and Sociology, (p. 122) for specific degree requirements, minors, A.A. paralegal program and suggested orders of study.

Sociology

Webster Hall 245, 625-9564

Faculty Miller - Chair, Geier, Gubera, Locher, Wells

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 121 for a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; Anth 155, 342 or Soc 303 meet the requirement in Area 5, International Cultural Studies.

Bachelor of Arts with a Major in Sociology

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Foreign Language (four courses in one language)		**12**
Sociology Requirements		**30**
Soc 110	Intro to Sociology	3
Soc 210	Social Problems**	3
Soc 300	Computer App in Soc Sci	3
Soc 311	Social Stratification**	3
Soc 431	Sociological Research Methods**	3
Soc 482	Sociological Theory**	3
Soc	Electives (6 hrs. must be upper division)	12
Supporting Requirements		**12**
Psy 320	Applied Statistics	3
Anth	Elective	3
Geo 310	Human and Cultural Geography	3
Comp 105	Intro to Micro Use	3
Supporting Area (approved by sociology adviser)* **		**15**
Electives		**7**
		124**

*Required sociology course Soc 110 satisfies three hours of Core Curriculum requirements.
**See Prerequisites
***A minor is highly recommended.
****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science with a Major in Sociology

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Sociology Requirements		**36**
Soc 110	Intro to Sociology	3
Soc 300	Computer App in Social Science**	3
Soc 311	Social Stratification**	3
Soc 361	Study of Population**	3
Soc 362	Deviant Behavior**	3
Soc 431	Social Research Methods**	3
Soc 482	Sociological Theory**	3
Soc	Electives (9 hours must be upper division)	15
Supporting Requirements		**12**
Comp 105	Intro to Micro Use	3
Psy 320	App Stat for Behavioral & Natural Sciences**	3
Anth	Elective	3
Geo 310	Human and Cultural Geography	3
Electives		**28**
		124***

*Required Sociology course 110 satisfies three hours of Core Curriculum requirements.
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Sociology Emphasis
Grades 9-12 Certification
Plan B **Single Teaching Field**

		Semester Hours
Core Requirements (p. 33) 51*		**33**
Sociology Requirements		**21**
Soc 110	Intro to Sociology	3
Soc 210	Social Problems**	3
Soc 221	Marriage and Family	3
Anth 342	Comparative Cultures**	3
Soc	Electives (6 hours upper division)**	9
Supporting Requirements		**36**
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization To 1660	3
Hist 140	Western Civilization From 1660	3
Hist	Upper Division U.S. Electives** (not 320)	6
Hist	Upper Division Latin American or Asian Elective**	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
PSc 120	Gov't; U.S./State/Local	3
PSc	Upper Division Elective**	3
Econ 180	Amer Econ System	3
Education Certification Requirements (p. 161)		**40-41**
		130-131

*Required courses in history, political science, sociology and economics satisfy major requirements and 18 hours of Core Curriculum.
**See Prerequisites

Minor in Sociology

		Semester Hours
Soc 110	Intro to Sociology	3
Soc 311	Social Stratification (WI)	
OR		
Soc 341	Gender Roles	
OR		
Soc 382	Minority Groups and Race Relations	3
Soc 402	Community (WI)	3
Soc	Electives (6 hours must be upper division)	12
		21

*Select with prior approval of a sociology adviser. See prerequisites where applicable.

Minor in Social Work

		Semester Hours
Soc 110	Intro to Sociology	3
Soc 221	Marriage and Family	3
Soc 306	Sociology of Aging*	3
Soc 331	Intro to Social Work *	3
Soc 332	Soc Work Practice*	3
Soc 382	Minority Groups and Race Relations*	3
Soc 406	Child Abuse*	
OR		
Soc 496	Internship**	3
		21

*See Prerequisites
**Admission dependent on departmental committee approval.

Suggested Order of Study

Bachelor of Arts
Major Code 2208
Sociology Major

Freshman Year
1st Semester

Course		Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Humanities and Fine Arts]	3
Foreign Language		3
Psy 120	College Orientation	1
		16

2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Bio 101 General Biology]	4
		16

Sophomore Year
1st Semester

Soc 210	Social Problems**	3
Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
		15

2nd Semester

Soc	Elective	3
Foreign Language		3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 120 U.S. History 1877-Present]	
OR		
CORE	[Hist 320 U.S. History 1877-Present]	3
		14

Junior Year
1st Semester

Soc 311	Social Stratification**	3
Comp 105	Intro to Micro Use	3
CORE	[English Lit]	3
Psy 320	App Stat**	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
		15

2nd Semester

Supporting Area [A minor is suggested]		5
Soc 300	Comp App in Soc Sci**	3
Geog	Elective**	3
Electives		2
		13

Senior Year
1st Semester

Soc 431	Sociological Res Methods**	3
Soc	[Upper Division Elective]	3
Supporting Area [A minor is suggested]		4
Soc	Electives	3
Elective		3
		16

2nd Semester

Soc 482	Sociolgical Theory**	3
Supporting Area [A minor is suggested]		6
Electives		6
		15

*Also meets a Core Curriculum requirement
**Prerequisites
[Department Recommendations]

The student is to select a supporting area in consultation with a sociology adviser.

Bachelor of Science
Major Code 2220
Sociology Major

Freshman Year
1st Semester

Course		Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective		3
Psy 120	College Orientation	1
		16

2nd Semester

Comp 105	Intro to Micro Use	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		17

Sophomore Year
1st Semester

Soc Elective with approval of adviser		3
CORE	[Math 110 College Math]	3
CORE	[English Lit]	3
Geog	Elective	3
CORE	[Bio 101 General Biology]	4
		16

2nd Semester

Soc	Elective	3
CORE	[Humanities and Fine Arts]	3
CORE	[Kine 103 Lifetime Wellness]	2
Elective	[A minor is suggested]	6
		14

Junior Year
1st Semester

Soc 311	Social Stratification**	3
CORE	[Psy 320 App Stat]	3
Comp 105	Intro to Micro Use	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 U.S. 1877-Present]	
OR		
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[Kine 101 Physical Activity]	1
		16

2nd Semester

Soc 362	Deviant Behavior**	3
Soc 361	Study of Population	3
Electives	[A minor is suggested]	6
Soc 300	Comp App in Soc Sci**	3
		15

Senior Year
1st Semester

Soc 431	Soc Research Methods**	3
Soc	Electives	6
Elective	[A minor is suggested]	6
		15

2nd Semester

Soc 482	Sociological Theory**	3
Soc	Elective	3
Electives	[A minor is suggested]	9
		15

*Also meets a Core Curriculum requirement.
**Prerequisites
[Department Recommendations]
The student is to select a minor in consultation with a sociology adviser.

For additional information contact:
Dr. Conrad Gubera
Office: Webster Hall 228
Phone: 625-9653
E-Mail: gubera-c@mail.mssc.edu

Course Descriptions

Anthropology

Anth 155 (F) 3 hrs. cr.
Physical Anthropology and Archaeology
Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

Anth 298 (Demand) 3 hrs. cr.
Topics in Anthropology
Special Anthropology topics of current interest. Subjects and instructors may vary each semester. Students are encourage to submit areas of interest to the social science department.

Anth 302 (S) 3 hrs. cr.
North American Indian
Ethnographic survey of the indigenous tribes of North America (excluding Mexico), including earliest archeological sequences followed by a description of the culture areas and traditional lifeways encompassed therein at the time of European contact, with emphasis upon the processes of culture change and adaptation over the past to centuries. Contemporary issues such as language renewal, the Pan-Indian movement, religious freedom and tribal sovereignty are then placed within their cultural and historical contexts.

Anth 342 (S) 3 hrs. cr.
Comparative Cultures
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary preindustrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or Anth 155 or consent of instructor.

Anth 385 (F) 3 hrs. cr.
Language and Culture
Exploration of the relationship between language and culture from the theoretical and substantive approaches within anthropology, including the Sapir-Whorf hypothesis and the attempts to support or refute it. An ethnographic examination of the expressive potentialities of diverse languages and cultures is provided for purposes of cross-cultural comparison.

Anth 498 (Demand) 3 hrs. cr.
Seminar in Anthropology
Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research.

Anth 499 (Demand) 3 hrs. cr.
Independent Study
Stuctured by the adviser with approval of the department chair and school dean.

Sociology

Soc 110 (F, S) 3 hrs. cr.
Introduction to Sociology
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

Soc 210 (F, S) 3 hrs. cr.
Social Problems
A survey of contemporary social problems including racism, sexism, crime and deviance, drug use, and mental disorders. The course encourages a critical examination of society and focuses on the structural sources of social problems such as class, race, and gender. The role of the U.S. in global social problems is also explored. Prerequisite: Soc 110.

Soc 221 (F) 3 hrs. cr.
Marriage and Family
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.

Soc 291 (F) 3 hrs. cr.
The Sociology of Death and Dying
A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.

Soc 298 (Demand) 3 hrs. cr.
Topics in Sociology
Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the social science department.

Soc 300 (F,S Even) 3 hrs. cr.
Computer Applications in the Social Sciences
An analysis of computers and their applications in the social sciences. Focus on preexisting software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Psy 320.

Soc 301 (F) 3 hrs. cr.
Sociology of Religion
Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

Soc 303 (S) 3 hrs. cr.
The Arab World
A social science view of the Arab world which identifies peoples, countries, geographical settings, cultural differences, cultural change, political and religious affiliations, and the emergence of contemporary issues. Special emphasis will be placed upon the Israel - Palestine - Jordan problem area. Can be used to satisfy the Core Curriculum in Area 5.

Soc 306 (S) 3 hrs. cr.
Sociology of Aging
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Soc 311 (F) 3 hrs. cr.
Social Stratification *(Writing Intensive)*
Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.

Soc 312 (S) 3 hrs. cr.
Juvenile Delinquency
Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.

Soc 319 (F) 3 hrs. cr.
Individual and Society
Theoretical examination of the individual as a social product and social force. Study the foundations of human interaction, process of socialization, and differentiation of individuals. Focus on perceptions, attitudes, and beliefs within the individual as we examine individual behavior within the social context. Prerequisite: Soc 110.

Soc 322 (S) 3 hrs. cr.
Sociology of Work and Leisure
Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Soc 331 (F) 3 hrs. cr.
Introduction to Social Work
Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. May entail field trips and guest speakers. Prerequisite: Soc 110.

Soc 332 (S) 3 hrs. cr.
Social Work Practice
Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.

Soc 341 (F) 3 hrs. cr.
Gender Roles
Introduction to the biological, cultural and structural foundations of gender. Explores theories that help to explain gender, a fundamental and pervasive determinant of social life. Studies reviewed that illustrate differences in the evaluations of men's and women's activities and traditional gender roles. Sociological implications of sex and gender at both the personal (micro) and societal (macro) levels of analysis will be discussed. Prerequisite: Soc 110.

Soc 343 (F) 3 hrs. cr.
Visual Sociology
An exploration of the varied ways that visual images may be incorporated into sociological research. Overview of the principals of visual research. The three categories of techniques explored are: using images to illustrate or illuminate sociological research, using images to gather sociological information, and examining images from a sociological perspective. Emphasis on learning to apply these techniques to any sociological problem. Prerequisite: 9 hours of sociology.

Soc 351 (F) 3 hrs. cr.
Criminology
Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Soc 354 (S) 3 hrs. cr.
Sociology of Health and Illness
Social causes and consequences of health and illness. The expanding role of health-related organizations, the training of health care personnel, and the contemporary consumer's movement, are also explored. A cross-cultural comparison of health care delivery systems and a review of various social problems associated with health care in the U.S. is provided. Prerequisite: Soc 110.

Soc 361 (F) 3 hrs. cr.
The Study of Populations
Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of over-population, minority groups and aging are analyzed. Prerequisite: Soc 110.

Soc 362 (S) 3 hrs. cr.
Deviant Behavior
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: 6 hours of Sociology.

Soc 373 (F) 3 hrs. cr.
Sociology of Sports
The examination of sports as social phenomena, using sociological tools to place sports with the larger context of social structure. Sports involve social relationships and collective action and have relevance in people's social lives. As such, it is important to investigate how they are defined, organized and integrated into the culture of society and to increase awareness of their positive and negative consequences. Prerequisite: Soc 110.

Soc 382 (S) 3 hrs. cr.
Minority Groups and Race Relations
A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110.

Soc 391 (F) 3 hrs. cr.
Penology and Corrections
Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.

Soc 395 (F) 3 hrs. cr.
Collective Behavior
Emerging social processes related to crowd behavior such as riots panics, mass hysteria's, fads and social movements. Exploration of the theories that have been applied to such occurrences. Examination of several specific episodes of collective behavior from the perspective of these theories. Prerequisite: 9 hours of sociology or consent of instructor.

Soc 402 (S) 3 hrs. cr.
The Community - Rural and Urban
(Writing Intensive)
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic and subcultural communities, and how these intertwine in contemporary societies. Prerequisite: Soc 110.

Soc 406 (S) 3 hrs. cr.
Sociology of Child Abuse
An analysis of child abuse and neglect as it has developed within the United States. The dynamics of the family environment as well as the victim-perpetrator relationship will be examined. Emphasis will be placed on societal reaction to both abuser and the abused in addition to the behavior itself. Potential treatment alternatives will be analyzed. Prerequisite: 12 hrs. of sociology.

Soc 407 (F) 3 hrs. cr.
Sociology and the Mass Media
Importance of mass media in shaping and creating cultural perceptions. As an agent of Socialization that has continued to expand its influence by virtue of its pervasiveness, it is important to examine the nature and impact of its messages. Prerequisite: Soc 110.

Soc 431 (F,S Odd) 3 hrs. cr.
Sociological Research Methods
(Writing Intensive)
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.

Soc 482 (S) 3 hrs. cr.
Sociological Theory
Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Soc 496 (Demand) 1-8 hrs. cr.
Internship in Sociology
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee.

Soc 498 (Demand) 3 hrs. cr.
Seminar in Sociology
For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue indepth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Soc 499 (Demand) 1-2-3 hrs. cr.
Independent Study
Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

Theatre

Taylor Auditorium 243, 625-9393

Faculty J. Fields - Head, S. Claussen, D. Hunt, A. Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

Theatre Performance/Design
Television Production/Performance
Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Recreational Directorship
Technical Theatre
Personnel Management
Government Service
Fashion Industry
TV Anchor
Business
Computer Technology
Secondary Education
Film Cartoon Director
Ministry
Magician
Theme Park Performance/Production

Factors Unique to Theatre Department:

1. hands-on experience for students in acting, house and stage management, directing and technical design-execution;

2. a children's theatre play program performing for more than 15,000 people annually from the four state area;

3. play participation open to all Southern students, faculty and staff;

4. theatre faculty members who have professional experience in their teaching specialties;

5. a modern, well-equipped mainstage theatre as well as flexible space for studio productions;

6. two theatre organizations: Backstage and Alpha Psi Omega, a national honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre, a bachelor of science in education degree with a major in theatre/speech (plan B), and an associate of arts degree with a performance or a non-performance option. A minor in theatre is also available. During their senior year, all majors must take a final exam covering all areas of the theatre and present a creative exiting project in addition to participating in the college general assessment program.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 301.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

Bachelor of Arts with a Major in Theatre

		Semester Hours
Core Requirements (p. 33) 51*		**42**
Computer Literacy Requirement Comp 105 or above		**3**
Foreign Language (four courses in one language)		**12**
Theatre Requirements		**46**
Th 121,122,221,222 Theatre Laboratory (Select two)		4
Th 142	Theatre Technology	3
Th 231	Speech for Stage	3
Th 232	Costume Technology	3
Th 233	Stage Makeup	3
Th 234	Introduction to Theatrical Design	3
Th 241	Acting I (WI)	3
Th 331	History of Theatre (WI)	3
Th 332	History of Theatre (WI)	3
Th 341	Acting II**	3
Th 351	Directing I**	3
Th 362	Stage Costume Design**	3
Th 320	Lighting Design**	
OR		
Th 361	History of Costume**	
OR		
Th 372	Directing II**	3
Th 422	Acting III**	
OR		
Th 431	Creative Dramatics	3
Th 441	Stage Design**	3
Supporting Requirements		**9**
Art 110	Art Appreciation	3
Mus 110	Music Appreciation	3
Hist 130	OR 140 Western Civ.	3
Electives		**12**
		124* **

*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.
**See Prerequisites
***Three Writing Intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 or 5 of the Core Curriculum.

Bachelor of Science in Education with a Major in Theatre/Speech Communications Grades 9-12 Certification Plan B Single Teaching Field

		Semester Hours
Core Requirements (p. 33) 51*		**48**
Computer Literacy Requirements - Educ 301		**3**
Theatre Requirements		**20**
Th 121 or 122 or 221 or 222 Theatre Laboratory		2
Th 142	Theatre Tech	3
Th 212	Oral Interpretation	3
Th 234	Introduction to Theatrical Design	3
Th 241	Acting I (WI)	3
Th 331	History of Theatre (WI)	
OR		
Th 332	History of Theatre (WI)	3
Th 351	Directing I**	3
Communication Requirements		**12**

Comm 101	Intro to Human Comm	3
Comm 215	Interpersonal Comm**	3
Comm 304	Small Group Comm	3
Comm 315	Argumentation and Debate**	3
Speech Communication Electives* **		**8**
Education Certification Requirements (p. 161)		**38-39**
		128-129

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.
**See Prerequisites
***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre. Students pursuing the BSE degree must receive no lower grade than a "C" in all required theatre/communication courses.

Associate of Arts with an Emphasis in Theatre

	Semester Hours
Core Requirements (p. 45)	**42**

Candidates for the associate of arts degree with an emphasis in Theatre must select Th 110, Theatre Appreciation for Area 2A of the Core

Theatre Requirements (Select Option A or B)

A. Performance Option		**25**
Th 101,102,201,202 Theatre Performance (2)		
OR		
Th 121,122,221,222 Theatre Laboratory		2
Th 231	Speech for Stage	3
Th 241	Acting I	3
Th 242	Theatre Movement	1
Th 251	Audition Techniques For the Actor	1
Th 341	Acting II	3
Th 233	Stage Makeup	3
Th 142	Theatre Technology	
OR		
Th 232	Costume Technology	3
Plus 2 Courses from list below		6
Th 212	Oral Interpretation	
Th 243	Musical theatre	
Th 141	Improvisational Acting	
Th 422	Acting III	
Th 431	Creative Dramatics	
Th 351	Directing I	
Th 372	Directing II	
Th 331	History of Theatre I	
Th 332	History of Theatre II	
		67

B. Non-Performance Option		**24**
Th 121, 122, 221, 222 Theatre Laboratory		6
Th 142	Theatre Technology	3
Th 243	Introduction to Theatrical Design	3
Th 243	Costume Technology	
OR		
Th 320	Stage Lighting	3
Th 241	Acting I (non-majors section if available)	3
Plus 2 Courses form list below		6
Th 233	Stage Makeup	
Th 361	History of Costume	
Th 311	Stage Management	
Th 441	Stage Design	
Th 362	Stage Costume Design	
Th 331	History of Theatre I	
Th 332	History of Theatre II	
		66

Minor in Theatre

	Semester Hours
Th 121, 122, 221, 222 Theatre Laboratory (Select two)	**4**
Th 110 Theatre Appreciation	**3**
Choose a total of 11 hours from the following list of classes:	**11***

Th 141	Improvisational Acting	3
Th 142	Theatre Technology	3
Th 212	Oral Interpretation	3
Th 233	Stage Makeup	3
Th 234	Introduction to Theatrical Design	3
Th 231	Speech for Stage	3
Th 251	Audition Techniques for the Actor	1
Th 232	Costume Technology	3
Th 242	Theatre Movement	1
Th 311	Stage Management**	3
Th 241	Acting I (WI)	3
Th 243	Musical Theatre	3
Th 298	Explorations in Theatre (when offered)	3
Th 320	Stage Lighting**	3
Th 331	Theatre History (WI)	3
Th 332	Theatre History (WI)	3
Th 333	Eastern Theatre Tradition	3
Th 341	Acting II**	3
Th 351	Directing I**	3
Th 361	History of Costume	3
Th 362	Stage Costume Design**	3
Th 372	Directing II**	3
Th 422	Acting III**	3
Th 435	Theatre Internship	1-3
Th 441	Stage Design**	3
		18

*All courses must be selected with adviser approval. Six hours must be upper division.
**See Prerequisites

Suggested Order of Study

Bachelor of Arts
Major Code 1007
Theatre Major

Freshman Year

1st Semester

Course		Hours
Th 121	Theatre Lab	2
Th 231	Speech For Stage	3
Th 233	Stage Makeup	3
CORE	[Eng 101 Comp I]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		14

2nd Semester

Th 142	Theatre Tech	3
Th 241	Acting I	3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 or above]	3
Th 212	Oral Interpretation	3
		16

Sophomore Year

1st Semester

Th 341	Acting II*	3
Th 221	Theatre Lab	2
Th 251	Aud. Techniques for Actor	1
Comp 105	or above Computer Literacy Requirement	3
CORE	Art Appreciation	3
CORE	[Literature Choice]	3
CORE	[Hist 110 U.S. 1492-1877]	3
		18

2nd Semester

Th 422	Acting III*#	
OR		
Th 431	Creative Dramatics	3
Th 234	Intro to Theatrical Design	3
Th 320	Lighting Design *#	3
CORE	Music Appreciation	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Comm 100 Oral Comm]	3
		18

Junior Year

1st Semester

Th 441	Stage Design*	3
Th 232	Costume Technology	3
Th 331	History of the Theatre	3
CORE	[Bio 101 General Biology]	4
Foreign Language		3
		16

2nd Semester

Th 362	Stage Costume Design*	3
Th 332	History of the Theatre	3
CORE	[Hist 120 U.S. 1877-Pres]	3
Foreign Language		3
CORE	[Hist 140 West Civ]	3
		15

Senior Year

1st Semester

Th 361	History of Costume#	3
Th 351	Directing I**	3
CORE	[Phys 100 Physical Science]	5
Foreign Language		3
		14

2nd Semester

Th 372	Directing II*#	3
Foreign Language		3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[PSc 120 Gov't:U.S./Sta/Loc]	3
Elective	Th or Eng	3
		15

[Department Recommendations]
*See prerequisites
#May be substituted for approved class in tech or acting area

Supporting Electives:
Accounting, Art, Business, Communications, English, Music,Computer Science

For additional information contact:
Dr. Jay Fields
Office: Taylor Performing Arts Center 243
Phone: 625-9393
E-Mail: fields-j@mail.mssc.edu

Bachelor of Science in Education
Major Code 0844
Speech and Theatre
Grades 9-12 Certification
Theatre Emphasis
Plan B **Single Teaching Field**

Freshman Year

1st Semester

Courses		Hours
Educ 100	Orientation to Education I	1
Psy 100	General Psychology	3
Th 121	Theatre Lab	2
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 101 Physical Activity]	1
Elective		3
		17

2nd Semester

Th 142	Theatre Tech	3
Th 212	Oral Interpretation	3
Th 241	Acting I	3
CORE	[Eng 102 Comp II]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Math 110 or above]	3
		17

Sophomore Year

1st Semester

Take C-Base test.

Educ 200	Orientation to Education II	1
Comm 101	Intro to Human Comm	3
CORE	[Hist 120 U.S. 1877-Pres]	3
CORE	[Area 2-A Elective]	3
CORE	[Area 2-C Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
		16

2nd Semester

Apply for admission to teacher education.

Educ/Psy 302	The Exceptional Child	2
Educ 301	Computer Software	3
CORE	[Hist 110 U.S.1492-1877]	3
Comm 215	Interpersonal Comm	3
Th 234	Intro to Theatrical Design	3
Psy 301	Adolescent Psychology	3
		17

Junior Year

Pass media competencies.

1st Semester

Th 331	History of Theatre	3
Psy 310	Educational Psychology	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Comm 304	Small Group Comm	3
		16

Note: See Educ 420 below**

2nd Semester

Educ 422	Tchng Rdng in the Sec Sch	2
Comm	Electives*	4
CORE	[Phys 100 Physical Science]	5
CORE	[PSc 120 Gov't: U.S./ Sta/Loc]	3
CORE	[Area 2-B Elective]	3
		17

Senior Year

1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 351	Directing I*	3
Comm 315	Argumentation & Debate	3
CORE	[Bio 101 General Biology]	4
CORE	[Area 5-A Elective]	3
Comm	Electives*	3
		16

2nd Semester

Educ 344	Tchng Spe & Th in Sec Sch	2
Educ 402	Foundations in Educ	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curr Development (2)	
OR		
Educ 420	Intro to Counseling**	3
OR		
Psy 412	Meas & Eval (2)	2
Educ 462	Stu Tchng in Sec Sch	8
		16-17

[Department Recommendations]

*See prerequisites
**Offered at night only. Must be taken the semester prior to student teaching. Can substitute Educ 412 or Psy 412 for Educ 420.

Associate of Arts with an Emphasis in Theatre
Major Code 1007
Performance Option

Freshman Year

1st Semester

Courses		Hours
CORE	[Eng 101 Comp]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Th 110 Theatre Apprec]	3
Th 121	Theatre Lab	2
Th 231	Speech for Stage	3
Th 233	Stage Makeup	3
		16

2nd Semester

CORE	[Eng 102 Comp]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 or above]	3
CORE	[Psy 100 General Psychology]	3
Th 241	Acting I	3
Th 242	Theatre Movement	1
Th 142	Theatre Tech	
OR		
Th 142	Costume Tech (Fall, Odd)	3
		17

Sophomore Year

1st Semester

CORE	[Literature Choice]	3
CORE	[Humanities Choice]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psc 120 Gov't:US/Sta/Loc]	3
Th 251	Aud. Techniques for Actors	1
Th 341	Acting II	3
		17

2nd Semester

CORE	[Comm 100 oral Comm]	3
CORE	[Phys 100 Physical Science]	5
CORE	[Hist 110 or 120 US History]	3
Th	Performance Electives	6
		17

Associate of Arts with an Emphasis in Theatre
Major Code 1007
Non-Performance Option

Freshman Year

1st Semester

Courses		Hours
CORE	[Eng 101 Comp]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Th 110 Theatre Apprec]	3
Th 121	Theatre Lab	2
Th 232	Costume Tech	
OR		
Th 320	Stage Lighting (Spring, Odd)	3
Th	Non-Performance Elective	3
		16

2nd Semester

CORE	[Eng 102 Comp]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Math 110 or above]	3
CORE	[Psy 100 General Psychology]	3
Th 142	Theatre Tech	3
Th 241	Acting I	3
		16

Sophomore Year

1st Semester

CORE	[Literature Choice]	3
CORE	[Humanities Choice]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psc 120 Gov't:US/Sta/Loc]	3
Th	Non-Performance Electives	3
		16

2nd Semester

CORE	[Comm 100 oral Comm]	3
CORE	[Phys 100 Physical Science]	5
CORE	[Hist 110 or 120 US History]	3
Th 234	Intro to Design	3
		14

For additional information contact:
Dr. Jay E. Fields
Office: Taylor Performing Arts Center 243
Phone: 625-9393
E-Mail: fields-j@mail.mssc.edu

Course Descriptions

Th 101,102,201,202,301,302,401,402 (F, S, S) 1 hr. cr.
Theatre Performance
The performance of a role, service as a designer or stage manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

Th 110 (F, S, S) 3 hrs. cr.
Theatre Appreciation
Introduction to theatre as a communicative and fine art emphasizing collaborative efforts of playwright, artistic director, designer, actor, and crew. Activities include the interpretation and evaluation of plays through scripts, live, and taped performances. Satisfies 3 semester hours of Core Curriculum requirement in Area 2A or 2C (Humanities and Fine Arts).

Th 121,122,221,222,321,322 (F, S) 2 hrs. cr.
Theatre Laboratory
A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a week.

Th 141 (Demand) 3 hrs. cr.
Improvisational Acting
Development of individual's ability to express motivation, objective, thought, action and dialogue improvisationally. Daily discussions and improvisational exercises which lead to more believable stage performance.

Th 142 (S, Even) 3 hrs. cr.
Theatre Technology
Hardware and tool usage and technical drawing as applied to theatre. The use of electricity, sound and electronics in the theatre. Stage rigging.

Th 212 (S, Even) 3 hrs. cr.
Oral Interpretation
Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

Th 231 (F, Odd) 3 hrs. cr.
Speech for Stage
Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

Th 232 (F, Odd) 3 hrs. cr.
Costume Technology
Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dyeing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

Th 233 (F, Odd) 3 hrs. cr.
Stage Makeup
Examination of the usages of stage makeup techniques in design and application. Detailed categories of professional makeup materials, usage techniques, sources and costs of material, and demonstrations of various methods of design and application. Each unit of lecture and demonstration will be accompanied by student individual and group study with projects presented in class for critical review. Students must provide individual makeup supplies.

Th 234 (S, Odd) 3 hrs. cr.
Introduction to Theatrical Design
Theoretical information which is common to all theatrical design courses. Emphasis is on developing creativity, script analysis, techniques of scenography, and collaboration, as well as the application of basic elements and principles of design in relation to the theatre.

Th 241 (S, Even) 3 hrs. cr.
Acting I *(Writing Intensive)*
Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Th 242 (S, Even) 1 hr. cr.
Theatre Movement I
Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of nonverbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1 hr. labs per week.

Th 243 (F, Odd) 3 hrs. cr.
Musical Theatre
History, production and performance of musical theatre. Academic concentration on scenes from musicals with emphasis on acting, music, and dance techniques needed for musical productions, and focus upon representative musicals from the past fifty years and more specifically on the particular musical selected for production the spring semester of that school year. Course also offered under Mus 243.

Th 251 (F, Even) 1 hr. cr.
Audition Techniques For The Actor
Techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

Th 298 (Demand) 3 hrs. cr.
Exploration in Theatre
Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

Th 311 (F, Even) 3 hrs. cr.
Stage Management
Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.

Th 320 (S, Odd) 3 hrs. cr.
Stage Lighting
Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisites: Th 142 & 234.

Th 331 (F, Odd) 3 hrs. cr.
History of the Theatre *(Writing Intensive)*
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.

Th 332 (S, Even) 3 hrs. cr.
History of the Theatre *(Writing Intensive)*
Plays and playwrights from the Jacobean period through the present day. The cultural background and evolution of the literature, physical theatre, staging, acting, audiences, and production practices.

Th 333 (Demand) 3 hrs. cr.
Eastern Theatre Tradition
The study of Eastern thought and culture in the discipline of theatre. All areas of design as well as acting and movement will be discussed.

Th 341 (F, Even) 3 hrs. cr.
Acting II
The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.

Th 351 (F, Even) 3 hrs. cr.
Directing I
A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis and mounting a production. Scene directing. Prerequisite: Th 241.

Th 361 (F, Even) 3 hrs. cr.
History of Costume
Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. *(Recommended for Stage Costume Design.)*

Th 362 (S, Even) 3 hrs. cr.
Stage Costume Design
Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume. Prerequisite: Th 234.

Th 372 (S, Odd) 3 hrs. cr.
Directing II
Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.

Th 422 (S, Odd) 3 hrs. cr.
Acting III
Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.

Th 431 (S, Odd) 3 hrs. cr.
Creative Dramatics
Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.

Th 441 (F, Odd) 3 hrs. cr.
Stage Design
Scene design approached artistically. Focus on nonverbal communication between directors, designers, technicians and audience members. Prerequisites Th 142 and Th 234.

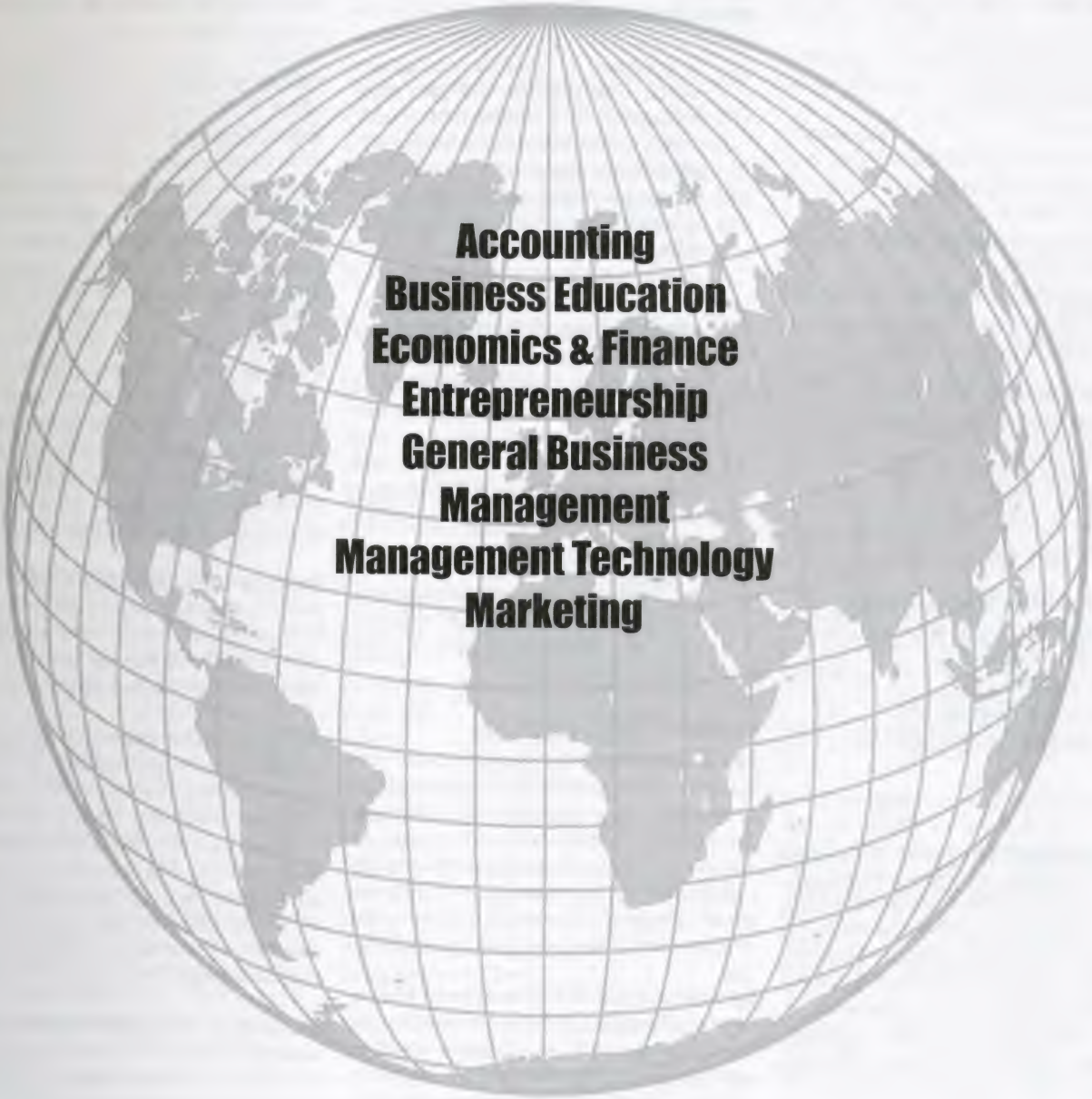
Th 450 (F, S) 1-3 hrs. cr.
Advanced Lab Practicum
Advanced practical implementation of techniques learned at beginning and intermediate levels of theatre production in the areas of directing and design. Play production for public performance. May be repeated for credit.

Th 455 (Demand) 1-3 hrs. cr.
Theatre Internships
Internship in theatre provides selected students on-the-job training and experience. The student is supervised and evaluated by a committee of faculty and by the supervisor at the facility where the student works. May be taken twice.

Th 498 (Demand) 3 hrs. cr.
Theatre Studies
Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

Th 499 (F, S) 1-3 hrs. cr.
Independent Study in Theatre
Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

School of Business Administration



Accounting
Business Education
Economics & Finance
Entrepreneurship
General Business
Management
Management Technology
Marketing

School of Business Administration

School Dean

James M. Gray
Matthews Hall 302, (417) 625-9319

Degrees and Majors

Bachelor of Science in Business Administration
- Accounting
- Economics and Finance
- General Business
- International Business
- Management
- Marketing

Associate of Science
- Accounting
- General Business

Concentration
- Entrepreneurship

Bachelor of Science in Education
(in cooperation with the School of Education)
- Business Education as a single teaching field
- Business Education as one of two teaching fields

Bachelor of Science in Management Technology *(in cooperation with the School of Technology)*
- General Business
- Manufacturing Information Management Systems (MIMS)

Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

Objectives

The objectives of the School of Business Administration are:

1. to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates;
2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

Student Organizations

The Accounting Club is open to accounting students seeking information regarding the profession and association with practicing accountants. Members are encouraged to attend monthly technical meetings and social functions. Members are also encouraged to become active in one or more of the area's professional accounting organizations.

Economics/Finance and Investment Club is open to all majors and has a National Honor Society designation for those economics and finance majors who have a cumulative GPA of 3.25 and at least six hours in finance.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with at least 15 hours in economics, and a 3.5 GPA in economics courses.

Marketing Club is open to all majors who are interested in learning the skills of developing marketing relationships. The club facilitates members' professional development by introducing students to leading marketers, firms engaged in marketing, field trips, and through club activities. Students learn leadership skills by participating in social and club activities.

Phi Beta Lambda is based on a set of goals, which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

Pi Omega Pi is an honorary business education society open to students upon completion of at least three semesters of college courses including at least 15 hours in business and education subjects and the achievement of an average grade of "B" or higher in all courses in business and education.

Students in Free Enterprise (SIFE) is a nonprofit corporation organized to promote the free enterprise system. The group participates in national competitions, finishing as high as second on two different occasions.

Society for Advancement of Management is a professional organization whose mission is to foster the interaction of students, faculty, and practicing managers in order to communicate the practice of professional management. The organization is open to all business majors, particularly management and marketing students, and offers its members a personal introduction to practicing managers in the local community.

The Society of Human Resource Management is based on a set of goals, which includes familiarizing students with human resource administration, industrial psychology, and labor relations. It is also designed to keep students up to date on new developments and to develop a nucleus of truly professional human resource for the future.

Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center, which encompasses the following areas:

The International Trade and Quality Center
The mission of the International Trade and Quality Center in the School of Business is to:

1. develop international consulting and other relevant services for four-state organizations and individuals who are or wish to be involved in international trade;
2. assist area organizations in their quest for continuous improvement of products, processes and services to enhance quality while reducing cost;
3. enhance the business curriculum by providing international and quality resources, internship opportunities and other appropriate assistance for faculty and students.

These objectives are met via assessment activities, research, educational programs, consulting, and serving as a clearinghouse for materials such as books, literature, tapes, and equipment.

The Southern Business and Economic Review
The Southern Business and Economic Review is published quarterly by the Small Business Development Center within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics, which is available to local business people.

Small Business Institute
The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

Business and Economic Lecture Series
The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

Management Development Institute
The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

Center for Entrepreneurship
The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

Business Core Requirements

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major (See course descriptions for prerequisites):

Business Administration

Core Requirements

		Semester Hours
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management	3
GB 301	Legal Environment of Business I	3
GB 320	Business Comm (WI)	3
GB 321	Business Statistics I	3
MM 237	Using Info Systems	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
MM 452	Strategic Mgmt (WI)	3
Advanced Business Elective*		3
Total Business Core		**39**

*Must be selected in consultation with adviser from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements. Mathematics - All candidates for the B.S.B.A. degree must complete Mathematics 130 or higher (Finite Mathematics 131 recommended) as their Core Curriculum mathematics course.

Minors

(Accounting, Economics/Finance, General Business, Management, and Marketing) for non-BSBA degree candidates.

Minor in Accounting

(Non-BSBA degree candidates)

Required:		
Acct 312	Intermediate Accounting I	3
Acct 375	Tax Accounting I	3
GB 301	Legal Environment of Business I	3
Econ 350	Financial Management	3
Upper-level accounting electives		6
Choose one:		3
Acct 310	Cost Accounting	
Acct 325	Managerial Accounting	
Total for Minor (Accounting)		**21**

Minor in Economics/Finance

(Non-BSBA degree candidates)

Acct 201	Prin of Accounting I	3
Econ 201	Prin of Economics-Macro	
OR		
Econ 180	American Econ System	3
Econ 202	Prin of Economics-Micro	3
Econ 300	Money and Banking	3
Choose three:		9
Acct 202	Prin of Accounting II	
Econ 330	Prin of Insurance	
Econ 350	Financial Management	
Econ 401	Microeconomic Analysis	
Econ 402	Macroeconomic Analysis	
Econ 411	Investments	
Econ 420	Security Analysis	
Econ 450	Financial Strategy	
Total for Minor (Economics/Finance)		**21**

Minor in General Business

(Non-BSBA degree candidates)

Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 202	Prin of Economics-Micro*	3
Econ 350	Financial Management	3
MM 237	Using Info Systems	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
Total for Minor (General Business)		**21**

*Econ 201 should be taken as a Core Curriculum requirement.

Minor in Management

(Non-BSBA degree candidates)

Choose two: 6

Acct 201	Prin of Accounting I
Econ 201	Prin of Economics-Macro
Econ 202	Prin of Economics-Micro
GB 320	Business Comm (WI)
GB 321	Business Statistics I

Required:

MM 350	Prin of Management (WI)	3

Choose four: 12

MM 337	Mgmt Information Systems
MM 352	Human Resource Mgmt
MM 354	Quality Mgmt
MM 411	Labor and Employment Law
MM 431	Operations Mgmt
MM 441	Organizational Behavior
MM 450	The Psy of HRM

Total for Minor (Management) 21

Minor in Marketing

(Non-BSBA degree candidates)

Required:

Econ 202	Prin of Economics-Micro	3

Choose one: 3

Acct 201	Prin of Accounting I
GB 320	Business Comm (WI)
GB 321	Business Statistics I
MM 350	Prin of Management (WI)

Required: 3

MM 300	Prin of Marketing

Choose four: 12

MM 312	Retailing
MM 321	Salesmanship
MM 401	Promotional Strategy
MM 405	Virtual Marketing
MM 412	Marketing Management
MM 432	Consumer Behavior
MM 470	Marketing Research

Total for Minor (Marketing) 21

Minors (Accounting, Human Resource Management, Multimedia, and Quality Management) for BSBA degree candidates.

Minor in Accounting

(BSBA degree candidate)

Required:

Acct 312	Intermediate Accounting I	3
Acct 375	Tax Accounting I	3
Acct 310	Cost Accounting	3
Upper-level accounting electives		9

Total for Minor (Accounting) 18

Minor in Human Resource Management

(BSBA degree candidate)

Required:

MM 350	Principles of Management	3
MM 352	Human Resource Mgmt	3
MM 411	Labor & Employment Law	3

Choose three: 9

MM 354	Quality Management
MM 441	Organizational Behavior
MM 450	Psy of Human Res Mgmt
MM 491	Internship in Mktng/Mgmt
GB 302	Legal Environment of Business II

Total for Minor (Human Res Mgmt) 18

Minor in Multimedia

(BSBA degree candidate)

Required:

MM 415	Virtual Marketing	3
Comp 110	Programming I	3
Art 101	Basic Design I	3
Comm101	Intro to Human Comm	3

Choose two:** 6

MM 337	Mgmt Info Systems
MM 401	Promotional Strategy
MM 432	Consumer Behavior

Total for Minor (Multimedia) 18

**Other courses may be substituted with permission of adviser.

Minor in Quality Management

(BSBA degree candidate)

Required:

Acct 201	Prin of Accounting I	3
MM 350	Prin of Management (WI)	3
MM 354	Quality Management	3
GB 405	Statistical Quality Control	3

Choose two: 6

Acct 325	Managerial Accounting
GB 321	Business Statistics I
GB 322	Business Statistics II
MM 352	Human Resource Mgmt
MM 431	Operations Management
Acct 310	Cost Accounting

Total for Minor (QM) 18

Accounting

Matthews Hall 309D, (417) 625-9607

Faculty Comstock, Goode, Paapanen, Roark, Shaver, Smith

The B.S.B.A. accounting major course of study is designed to prepare the student to enter any area of the accounting profession, to successfully complete the Certified Public Accountant or other professional certification examination and to enter graduate school.

Prospective accounting majors should take note of new requirements for entry into the profession. As of June 30, 1999, the State of Missouri requires 150 hours of college credit, including an undergraduate degree, before a candidate will be allowed to sit for the Certified Public Accountant examination. Arkansas, Oklahoma and Kansas, along with more than 40 other states, have similar requirements. Beginning in the year 2000, the American Institute of Certified Public Accountants will also require new members to have 150 semester hours of college credit. Accounting majors desiring to meet this requirement should note the "150-hour" recommended courses at the end of the B.S.B.A. Suggested Order of Study or plan to attend graduate school.

The A.S. accounting program of study is designed to prepare the student for bookkeeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

A minor in accounting for both BSBA and non-BSBA degree candidates is also available.

Associate of Science with a Concentration in Accounting

		Semester Hours
Core Requirements (p. 35)		**25-26**
Accounting Concentration		**36**
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 312	Intermediate Accounting I	3
Acct 322	Intermediate Accounting II	3
Acct 375	Tax Accounting I	3
GB 301	Legal Environment of Business I	3
GB 320	Business Communications (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
MM 237	Using Info Systems	3
MM 350	Prin of Management (WI)	3
Elective selected from:		3
Acct 325	Managerial Accounting	
GB 302	Legal Environment of Business II	
GB 321	Business Statistics I	
Business Elective		**3**
Total		**64-65**

Bachelor of Science in Business Administration with an Emphasis in Accounting

		Semester Hours
Core Requirements (p. 33)		**51**
Business Core (p. 133)		**39**
Accounting Major		**24**
Acct 310	Cost Accounting	3
Acct 312	Intermediate Accounting I	3
Acct 322	Intermediate Accounting II	3
Acct 332	Intermediate Accounting III	3
Acct 375	Tax Accounting I	3
Acct 402	Advanced Accounting	3
Acct 411	Auditing	3
Upper-level Accounting Elective (must be chosen with adviser approval. Internships, independent studies and VITA will not fulfill this requirement.)		3
Electives		**10**
		124

The following courses are ***highly*** recommended as electives for accounting majors. Many schools require these classes before a student may be admitted to graduate study.

GB 322	Business Statistics II	3
Math 302	Calculus for Mgmt & Social Sciences	3
MM 431	Operations Management	3

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0502
Accounting Emphasis

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year
1st Semester

Acct 201	Prin of Accounting I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Using Info Systems	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Accounting II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15

Junior Year
1st Semester

Acct 312	Intermediate Accounting I	3
Acct 375	Tax Accounting I	3
GB 301	Legal Envir of Bus I	3
GB 321	Business Statistics I	3
MM 350	Prin of Management (WI)	3
		15

2nd Semester

Acct 310	Cost Accounting	3
Acct 322	Intermediate Accounting II	3
GB 320	Business Comm (WI)	3
MM 300	Prin of Marketing	3
Elective		3
		15

Senior Year
1st Semester

Acct 332	Intermediate Accounting III	3
Acct 411	Auditing	3
Econ 350	Financial Management	3
CORE	[International Cultural Studies - IB 310 Intern'l Business strongly recommended]	3
CORE	[Humanities & Fine Arts Elective] (See Core Requirements, page 41)	3
Upper-level Business Elective		3
		18

2nd Semester

Acct 402	Advanced Accounting	3
Upper-level Accounting Elective (Must be selected with adviser approval. Internships, independent studies and VITA will not fulfill this requirement.)		3
MM 452	Strategic Management (WI)	3
Electives		6
		15
Total for B.S.B.A. degree		**124**

150-Hour Track

First Semester

Course		Hours
Acct 408	Tax Accounting II	3
Acct 431	Advanced Auditing	3
GB 420	Advanced Bus Comm	3
Econ 401	Microeconomic Analysis	3
		12

2nd Semester

Acct 440	Profes & Ethics in Acct	3
Acct 499	Independent Study in Acct (to be arranged with adviser)	2
GB 302	Legal Envir of Bus II	3
Select two:		6
Acct 418	Tax Accounting III	
Acct 420	Accounting Theory	
Acct 422	Advanced Cost Accounting	
		14

Associate of Science
Major Code 5002
Accounting Concentration

Freshman Year
1st Semester

Course		Hours
Acct 201	Prin of Accounting I	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 or Hist 120]	3
CORE	[Math 30 or higher]	3
CORE	[Kine 103 Lifetime Wellness]	2
Business Elective		3
		17

2nd Semester

Acct 202	Prin of Accounting II	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Art 110, Mus 110, Th 110, Literature or Phil 201]	3
GB 320	Business Comm (WI)	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year

1st Semester

Acct 312	Intermediate Accounting I	3
MM 237	Using Information Systems	3
GB 301	Legal Environment of Bus I	3
CORE	[Bio 110 or Phys 100]	4-5
CORE	[Econ 201 Econ-Macro]	3
		16-17

2nd Semester

Acct 322	Intermediate Acct II	3
Acct 375	Tax Accounting I	3
Econ 202	Prin of Econ-Micro	3
MM 350	Prin of Management (WI)	3
Business Elective (Acct 325, GB 302, GB 321)		3
Missouri Constitution Requirement - see pg. 37		3
		18

For additional information contact:
Dr. James Shaver
Office: Matthews Hall 309D
Phone: (417) 625-9607
E-Mail: shaver-j@mail.mssc.edu

Course Descriptions

Acct 201 (F, S) 3 hrs. cr.
Principles of Accounting I
An introduction to accounting as an information communication function that supports economic decision-making. The topics covered should help students to understand financial statements and their preparation, the accounting cycle, and basic accounting for current assets. Prerequisite or corequisite: Math 130 or 131.

Acct 202 (F, S) 3 hrs. cr.
Principles of Accounting II
Continued development of the understanding of accounting as a critical tool of business communication. Emphasis is on non-current assets, present value concepts, investments, stockholders' equity, and the statement of cash flows. Prerequisite: Acct 201.

Acct 310 (S) 3 hrs. cr.
Cost Accounting
Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis is placed on Quality Management as applied to industrial and service enterprises. Prerequisites: Acct 202, MM 237, GB 321.

Acct 312 (F, S) 3 hrs. cr.
Intermediate Accounting I
First of three courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). The course is organized in these areas: (1) environment of financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) statement analysis and revenue recognition, and (4) accounting for certain assets. Prerequisites: Acct 202, MM 237.

Acct 322 (F, S) 3 hrs. cr.
Intermediate Accounting II
Second of three courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Emphasizes topics in areas of: (1) accounting for assets and liabilities and (2) shareholders' equity. Prerequisite: Acct 312.

Acct 325 (F, S) 3 hrs. cr.
Managerial Accounting
Use of accounting as a tool for the process of planning, controlling and decision-making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

Acct 332 (F, S) 3 hrs. cr.
Intermediate Accounting III
Third of three courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Coverage includes (1) earnings per share, (2) investments, (3) income taxes, (4) post-retirement benefits, (5) leases, (6) cash flows, and (7) accounting changes and errors. Prerequisite: Acct 322.

Acct 375 (F) 3 hrs. cr.
Tax Accounting I
Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission/ and MM 237.

Acct 402 (F, S) 3 hrs. cr.
Advanced Accounting
Application of accounting principles of business combinations, consolidated financial statements, foreign currency transactions, international accounting and the work of the International Accounting Standards Committee. Prerequisite: Acct 322.

Acct 408 (Demand) 3 hrs. cr.
Tax Accounting II
Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

Acct 411 (F, S) 3 hrs. cr.
Auditing
Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, and performing an audit. Prerequisite: Acct 322.

Acct 418 (Demand) 3 hrs. cr.
Tax Accounting III
Procedures for reporting federal income taxes with emphasis on family tax planning, international tax and multi-state tax reporting. In addition, tax research procedures will be used to integrate tax topics examined in Tax Accounting I and Tax Accounting II. Prerequisite: Acct 375.

Acct 419 (Demand) 3 hrs. cr
Accounting Information Systems
A comprehensive study of the objectives, uses, evaluation and design of accounting information systems. The course is for students who will soon be assuming the responsibilities of professional accountants and need to know how accounting information systems function. Prerequisites: Acct 312 and MM 237 or equivalent.

Acct 420 (Demand) 3 hrs. cr.
Accounting Theory
Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prerequisite: Acct 322.

Acct 421 (F, S) 3 hrs. cr.
Governmental and Nonprofit Accounting
Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of colleges and universities, hospitals and other nonprofit entities. Prerequisite: Acct 322.

Acct 422 (Demand) 3 hrs. cr.
Advanced Cost Accounting
Advanced study in decision models and cost information, system choice, strategy and management control. Special emphasis on Quality Management and time related management control initiatives. Prerequisite: Acct 310.

Acct 431 (Demand) 3 hrs. cr.
Advanced Auditing
An integration of auditing concepts from Auditing I emphasizing specific applications of auditing principles and concepts. In addition, other specialized audit reports are examined including prospective financial statements and compilation and review engagements. Examination of internal and operational audits as well as special topics in auditing. Prerequisite: Acct 411.

Acct 440 (Demand) 3 hrs. cr.
Professionalism and Ethics in Accounting
A comprehensive examination of the ethical issues that may confront the student during their professional career. Provides a decision model for evaluating alternative courses of action when such dilemmas are encountered.

Acct 491 (Demand) 1-12 hrs. cr.
Internship in Accounting
An internship for senior accounting students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

Acct 498 (Demand) 1-3 hrs. cr.
Seminar in Accounting
For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Acct 499 (Demand) 1-3 hrs. cr.
Independent Study in Accounting
Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

Business Education

Matthews Hall 307B, (417) 625-9603

Faculty Block, Rusley

Bachelor of Science in Education (Business Major)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

Business education majors must have a cumulative GPA of 2.75 in all course work and must maintain a cumulative GPA of 2.75 in their business courses.

Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)

		Semester Hours
Core Requirements (p. 33)		**51**
Education courses (p. 161)		**41**
Business Major		**42**
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Accounting - Select one:		3
Acct 312	Intermediate Accounting I	
Acct 325	Managerial Accounting	
Acct 375	Tax Accounting	
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
GB 110	Computer Formatting*	3
GB 112	Computer Document Production*	3
GB 301	Legal Environment of Business I	3
GB 312	Prin of Business Educ	3
GB 320	Business Comm (WI)	3
MM 237	Using Info Systems	3
MM 300	Prin of Marketing	3
MM 337	Management Information Systems	3
MM 350	Prin of Management (WI)	3
		134

Students can graduate with 128 hours if Psy 100 and Econ 201 are taken to fulfill college core requirements.

*Students having proficiency in keyboarding may ask to be tested. If advanced standing is granted in the subject, the student will substitute another course in order to meet the 42 hour requirement.

Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)

		Semester Hours
Core Curriculum (p. 33)		**51**
Education courses (p. 161)		**41**
Business Major		**30**
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Accounting - Select one:		3
Acct 312	Intermediate Accounting I	
Acct 325	Managerial Accounting	
Acct 375	Tax Accounting	
Econ 201	Prin of Economics-Macro	3
GB 110	Computer Formatting*	3
GB 112	Computer Document Production*	3
GB 301	Legal Environment of Business I	3
GB 320	Business Comm (WI)	3
MM 237	Using Info Systems	3
MM 337	Management Information Systems	3

*Students having proficiency in keyboarding may ask to be tested. If advanced standing is granted in the subject, the student will substitute another course to meet the 30 hour requirement.

Suggested Order of Study

Bachelor of Science
Major Code 0838
Plan B-Single Teaching Field
Business Education

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Art 110, Mus 110 or Th 110]	3
CORE	[Psy 100 Gen Psychology]	3
Educ 100	Intro to Teacher Educ I	1
CORE	[Kine 103 Lifetime Wellness]	2
		15

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Hist 120 or 320]	3
CORE	[Math 131 Finite Math]	3
GB 110	Computer Format (GB 105)	3
Educ 302	Exceptional Child	2
		17

Sophomore Year
1st Semester

CORE	[Econ 201 Econ-Macro]	3
Acct 201	Prin of Acct I (Math 131)	3
CORE	[Bio 101 General Biology]	4
Educ 200	Intro to Teacher Educ II	1
CORE	[Literature (Eng 261, 262, 271, 272, 281, 282)]	3
CORE	[Kine 101 Physical Activity]	1
Psy 310	Educational Psychology	2
		17

2nd Semester

Acct 202	Prin of Acct II (Acct 201)	3
Econ 202	Prin of Economics-Micro	3
MM 237	Using Info Systems	3
CORE	[Phys 100]	5
CORE	[Comm 100 or 103]	3
		17

Junior Year
1st Semester

Acct 312	Intermediate Accounting I	
OR		
Acct 325	Managerial Accounting	
OR		
Acct 375	Tax Accounting (Acct 202)	3
GB 301	Legal Environment of Bus I	3
Educ 321	Microteaching, Secondary	2
Educ 329	Ped Theo, Methods & Prac	4
Educ 423	Classroom Management	2
Psy 301	Adolescent Psychology	3
		17

2nd Semester

CORE	[Humanities and Fine Arts]	3
GB 112	Comp Doc Pro (GB 110)	3
GB 320	Bus Comm (WI) (Eng 102)	3
MM 300	Prin of Marketing (Econ 202)	3
Educ 422	Content Area Literacy: Secondary	2
		14

Senior Year
1st Semester

CORE	[International Cultural Stu]	3
GB 312	Prin of Business Educ	3
MM 337	Management Info System	3
MM 350	Prin of Management (WI)	3
EDUC 301	Computer Software in Educ	3
		15

2nd Semester
Professional Semester

Educ 336	Tchng Business, Secondary	2
Educ 402	Foundation of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 462	Student Tchng Secondary	8
Psy 412	Measurement & Evaluation	2
		16

(Prerequisites)

For additional information contact:
Dr. Beverly Block
Office: Matthews Hall 307B
Phone: (417) 625-9603
E-Mail: block-b@mail.mssc.edu

Economics and Finance

Matthews Hall 310G, (417) 625-9716

Faculty Jaswal, La Near, Larson, Rawlins, Smith

The B.S.B.A. economics and finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government and other public and private sector positions, as well as for graduate study.

Bachelor of Science in Business Administration with an Emphasis in Economics and Finance

		Semester Hours
Core Requirements (p. 33)		**51**
Business Core (p. 133)		**39**
Economics and Finance Emphasis		**18**
Econ 300	Money and Banking	3
Econ 411	Investments	3
Two of the following:		6
Econ 401	Microeconomic Analysis	
Econ 402	Macroeconomic Analysis	
Econ 450	Financial Strategy	
Advanced Econ/Fin Electives (selected in consultation with adviser from Econ/Fin courses numbered 300 or above)		6
Electives		**16**
		124

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0504
Economics and Finance Emphasis

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp 1]	3
CORE	[Math 131 Finite Math]	
OR		
CORE	[Math 130 College Algebra]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year
1st Semester

Acct 201	Prin of Accounting I	3
CORE	[Econ 201 Prin of Econ-Macro]	3
MM 237	Using Info Systems	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Accounting II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15

Junior Year
1st Semester

Econ 300	Money and Banking	3
GB 321	Business Statistics I	3
GB 301	Legal Environment of Bus I	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
		15

2nd Semester

GB 320	Business Comm (WI)	3
Econ 350	Financial Management	3
Econ 402	Macroeconomic Analysis	
OR		
Econ 450	Financial Strategy	3
Advanced Business Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)		3
Electives		3
		15

Senior Year
1st Semester

Econ 401	Microeconomic Analysis	3
Econ 411	Investments	3
Advanced Elective in Econ (selected in consultation with faculty adviser from courses numbered 300 or above)		3
CORE	[International Cultural Stu] (IB 310 strongly recommended)	3
CORE	[Hum & Fine Arts Elective] (See Core Requirements, p. 33)	3
Elective		2
		17

2nd Semester

Econ 402	Macroeconomic Analysis	
OR		
Econ 450	Financial Strategy	3
Advanced Electives in Econ (selected in consultation with faculty adviser from courses numbered 300 or above)		10
MM452	Strategic Management (WI)	3
		16
		124

For additional information contact:
Dr. Richard Rawlins
Office: Matthews Hall 310G
Phone: (417) 625-9716
E-Mail: rawlins-r@mail.mssc.edu

Course Descriptions

Econ 180 (F, S) 3 hrs. cr.
The American Economic System
A core course on the goals, organization and operation of the U.S. economy. Topics include: scarcity and choice; the role of profits, saving, investment, and competition as a pricing mechanism in the allocation of resources; the economic functions of government including fiscal and monetary policy tools used for macroeconomic stabilization; limitations of the market system; other types of economic systems; and the rationale for international trade and the effects of trade barriers. Not for business majors or for those who have taken Econ 201 or 202.

Econ 201 (F, S) 3 hrs. cr.
Principles of Economics (Macro)
A basic course that explains the organization, operation and goals of the U.S. economic system with emphasis on basic principles and concepts; measurement, determination and stabilization of national income; unemployment and inflation; the role of money and monetary policy; international finance; and current economic problems. Prerequisites: Math 130 or above.

Econ 202 (F, S) 3 hrs. cr.
Principles of Economics (Micro)
A continuation of economic principles with emphasis on the theory of price determination and income distribution, with particular attention to the nature and application of those bearing on decision making within a household, firm, or industry; cost and revenue implications of various product and factor market structures. Prerequisites: Math 130 or above.

Econ 300 (F, S) 3 hrs. cr.
Money and Banking
The nature, need, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201.

Econ 330 (F) 3 hrs. cr.
Principles of Insurance
Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ 201 and 202.

Econ 350 (F, S) 3 hrs. cr.
Financial Management
Study of the financial operating environment and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, GB 321.

Econ 401 (F) 3 hrs. cr.
Microeconomic Analysis
The price system and resource allocation through a system of markets and prices; price and output determination in perfect and imperfect markets; resource markets and income determination. Prerequisites: Econ 201 and 202.

Econ 402 (S) 3 hrs. cr.
Macroeconomic Analysis
National income determination with various macroeconomic models; fiscal and monetary policy; international linkages; consumption and investment; trade-offs between inflation and unemployment. Prerequisite: Econ 300.

Econ 411 (F) 3 hrs. cr.
Investments
Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Econ 420 (S) 3 hrs. cr.
Security Analysis
A broad introduction to basic stock selection using "fundamental" analysis whereby "over" and "under" valued stocks are to be identified. The class will construct a common stock portfolio of 10 to 25 stocks. Other topics covered will include: basic schools of investment thought (EMH, fundamental, and technical) diversification, quality of earnings, and factors affecting equity ownership. Prerequisites: Econ 350 or permission.

Econ 450 (S) 3 hrs. cr.
Financial Strategy
Financial planning, capital budgeting under constraints of mutual exclusiveness and capital rationing, leverage (both operating and financial), debt financing, common stock (including dividend policy), preferred stock, leasing, mergers, LBOs, and international finance using a case study approach. Prerequisite: Econ 350.

Econ 491 (F, S) 1-12 hrs. cr.
Internship in Economics and Finance
An internship for senior Economics/Finance students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.0 GPA and department approval.

Econ 498 (Demand) 1-3 hrs.
Special Topics in Economics.
For upper-division students. Topics to be announced each time the course is offered. Examples of seminars offered in the past are: 498-Seminar in International Economics, 498-Seminar in Business Cycles, and 498-Seminar in Public Finance.

Econ 499 (Demand) 1-3 hrs. cr.
Independent Study in Economics/Finance
Individually directed readings, research and discussion in selected areas of Economics/Finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and a minimum 3.0 GPA.

Entrepreneurship

Matthews Hall 107B, (417) 625-9520

Faculty Bradshaw, Robinson

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business start-ups. This concentration prepares the students to start their own businesses.

Requirements for a Concentration in Entrepreneurship:

		Semester Hours
Ent 201	Entrepreneurship - Developing a Business Plan	1
Ent 202	Entrepreneurship - Business Opportunities	1
Ent 203	Entrepreneurship - Legal Aspects	1
Ent 204	Entrepreneurial Financing and Information - Initial Capitalization	1
Ent 205	Entrepreneurial Financing and Information - Cash	

	Flow Budgeting	1
Ent 206	Entrepreneurial Financing and Information - Micro-computer Applications	1
Ent 207	Accounting for the New Venture - Procedures	1
Ent 208	Accounting for the New Venture - Records	1
Ent 209	Accounting for the New Venture - Taxation	1
Ent 210	Managing the Small Business - The Management Process	1
Ent 211	Managing the Small Business -Strategic Planning & Organizing	1
Ent 212	Managing the Small Business - Human Relations	1
Ent 213	Marketing the Small Business - Promotion	1
Ent 214	Marketing the Small Business - Pricing	1
Ent 215	Marketing the Small Business - Merchandise/ Inventory	1
		15

General Business

Matthews Hall 309K, (417) 625-9671

Faculty Block, Bradshaw, Cragin, Goode, Gray, Johnson, Kleindl, Marion, Miller, Rawlins, Rusley, J. Smith, Srombom, Tiede, Vernon

The B.S.B.A. general business major course of study is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

Bachelor of Science in Business Administration with an Emphasis in General Business

		Semester Hours
Core Requirements (p. 33)		**51**
Business Core (p. 133)		**39**
General Business Emphasis:		**18**
Acct 325	Managerial Acct	3
Econ	(selected from 300, 330, 401, 402, 411, GB 322, INTS 304)	3
MM	(selected from 352, 354, 410, 411, 412, 431, 441, 450, GB 405)	3
MM	(selected from 312, 321, 401, 405, 412, 432, 470)	3
MM 337	Management Information Systems	3
Advanced Business Elective (must be selected with adviser consultation & approval)		3
Electives		**16**
Total		***124***

Associate of Science in General Business

		Semester Hours
Core Requirements (p. 33)		**25-26**
General Business Concentration		**27**
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
MM 237	Using Info Systems	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
Business Electives (must be selected with approval of faculty adviser)		**12**
Total		***64-65***

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0501
General Business Emphasis

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year

1st Semester

Acct 201	Prin of Acct I	3
CORE	[Econ 201 Economics-Macro]	3
MM 237	Using Info Systems	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Acct II	3
Econ 202	Economics-Micro	3
GB 321	Business Statistics I	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
		15

Junior Year

1st Semester

Acct 325	Managerial Acct	3
GB 301	Legal Environment of Bus I	3
GB 320	Business Comm (WI)	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
		15

2nd Semester

Advanced Elective in Econ/Fin (must be selected from Econ 300, 330 401,402, 411, GB 322, or INTS 304)		3
Advanced Elective in Management (must be selected from MM 352, 354, 410, 412, 431, or 441)		3
Econ 350	Financial Management I	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within		

	the School of Business Administration)	3
MM 337	Management Infor Systems	3
Electives		3
		18

Senior Year
1st Semester

Advanced Elective in Marketing (must be selected from MM 312,321, 401,405, 412, 432 or 470)		3
CORE	[International Cultural Stu] (IB 310 Strongly recommended)	3
CORE	[Humanities and Fine Arts] (See Core Requirements, p. 33)	3
Electives		6
		15

2nd Semester

Advanced Business Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)		3
MM 452	Strategic Management (WI)	3
Electives		9
		15
		124

Associate of Science
Major Code 5001
General Business Concentration

Freshman Year
1st Semester

Course		Hours
Acct 201	Prin of Accounting I	3
CORE	[Eng 101 Comp I]	3
MM 237	Using Info Systems	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Math (30 or above)]	3
CORE	[Kine 103 Lifetime Wellness]	2
		17

2nd Semester

Acct 202	Prin of Accounting II	3
CORE	[Econ 201 Economics-Macro]	3
CORE	[Hist 110 or Hist 120]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Art 110, Mus 110, Th 110, Literature or Phil 201)]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year
1st Semester

Business Electives (must be selected with adviser approval)		6
GB 301	Legal Environment of Bus I	3
Econ 202	Prin of Economics-Micro	3
MM 350	Prin of Management (WI)	3
		15

2nd Semester

GB 302	Legal Environment of Bus II	3
MM 300	Prin of Marketing	3
CORE	[Missouri Constitution Requirement - see pg. 37]	3
Business Electives (must be selected with adviser approval)		3
CORE	[Bio 101 or Phys 100]	4-5
		16-17

[Department Recommendations]

For additional information contact:
Dr. Alex Vernon
Office: Matthews Hall 309K
Phone: (417) 625-9671
E-Mail: vernon-a@mail.mssc.edu

Course Descriptions

GB 101 (F, S) 3 hrs. cr.
Introduction to Personal Financial Planning
Introduction to the concepts and tools necessary for effective management of personal financial health. Includes goal-setting, investment decisions, obtaining and using credit, insurance, and retirement planning. Also provides exposure to various business careers and to comparable decisions that business owners and managers make.

GB 105 (F) 3 hrs. cr.
Computer Keyboarding
Learn or review the proper techniques for alphabet and number keys. Letter styles, proper report formats, simple tabulations, and employment communications are taught using basic Word 7.0 commands. Speed and accuracy in editing are stressed so the student will acquire a personally useful skill.

GB 110 (F, S) 3 hrs. cr.
Computer Formatting
Covers all styles of business letters, reports, memos, and tables. Some of the advanced Word 7.0 commands used are: headers and footers, find and replace, report styles, advanced table features, templates, labels, mail merge, and sort. Prerequisite: GB 105 or a good knowledge of the keyboard and familiarity with word processing.

GB 112 (F, S) 3 hrs. cr.
Computer Document Production
Production of all types of letters, reports, business forms, legal forms, tables, and desktop publishing using Word 7.0. Realistic, integrated office projects are used. Prerequisite: GB 110 or equivalent.

GB 301 (F, S) 3 hrs. cr.
Legal Environment of Business I
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes. Lectures supported by actual case decisions and case digests.

GB 302 (F, S) 3 hrs. cr.
Legal Environment of Business II
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisite: Junior standing.

GB 312 (F) 3 hrs. cr.
Principles of Business Education
Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations and vocational programs. For business education majors only. (To be taken in fall prior to student teaching.)

GB 320 (F, S) 3 hrs. cr.
Business Communication *(Writing Intensive)*
Principles of writing effective letters, memos and reports to solve real-world situations. Emphasis on contemporary issues and the employment process. Prerequisites: 6 hrs. English Comp or permission of instructor.

GB 321 (F, S) 3 hrs. cr.
Business Statistics I
Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendency and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130, 131 or higher, MM 237.

GB 322 (S) 3 hrs. cr.
Business Statistics II
Methods of statistical analysis relating to business decision-making and research in business and economics. Emphasizes sampling theory, parametric tests of hypotheses, analysis of variance, multiple regression, non-parametric tests of hypotheses, and other selected statistical techniques. Computer statistical packages (and spreadsheet packages) will be utilized in analysis of problems. Prerequisite: GB 321.

GB 360 (Demand) 2 hrs. cr.
Professional Development
Development of employability and career success skills will be emphasized, focusing on tools necessary for professional employment, such as communication skills, corporate etiquette, business dress, adjusting to the corporate environment, and developing a professional image.

GB 405 (Demand) 3 hrs. cr.
Statistical Quality Control
Theory and methods used in statistical quality control. Emphasizes basic statistical analysis, variables control charts, attributes control charts, interpretation of control charts, estimation of process parameters, gage capability, acceptance sampling, and service quality. Students will be encouraged to use spreadsheets to solve SPC problems. Prerequisites: GB 321 or consent of instructor.

GB 491 (F, S) 1-12 hrs. cr.
Internship in General Business
An internship for senior General Business students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

GB 498 (Demand) 1-3 hrs. cr.
Special Topics in General Business
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past include office machines, career orientation and human relations.

GB 499 (Demand) 1-3 hrs. cr.
Independent Study in General Business
Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

International Business

Matthews Hall 309L, (417) 625-9507

Faculty Bradberry, Larson, Marion, Shaver

The B.S.B.A. International Business major course of study is designed to prepare the graduate for employment with multinational companies. Potential employers may be large or medium/small-sized companies in the Joplin region, in Missouri, or in the U.S.

Bachelor of Science in Business Administration with an Emphasis in International Business

		Semester Hours
Core Requirements (p. 41)		**51***
Business Core (p. 133)		**39**
International Business Emphasis:		**34**
IB	(select three from 400, 410, 420, 430)	9
IntS	(select one from 303, 304, 305)	3
Competency in Foreign Language		3
International Internship or International Business Field Study		3
Electives		16
Total		**124**

*IB 310 included in Core Requirements.

Suggested Order of Study

Bachelor of Science
In Business Administration
Major Code 0503
International Business Emphasis

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: US/Sta/Loc]	3
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
MM237	Using Info Systems	3
		15

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Econ 201 Econ-Macro]	3
		16

Sophomore Year
1st Semester

Acct 201	Prin of Acct I	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Econ 202 Econ-Micro]	3
CORE	[Hist 110 American History]	3
CORE	[Fine Arts & Humanities Elective]	3
		17

2nd Semester

Acct 202	Prin of Acct II	3
CORE	[Bio 101 General Biology]	4
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282	3
CORE	[Hist 120 U.S. 1877-Pres]	3
Elective		3
		16

Junior Year
1st Semester

IB 310	International Business	3
GB 301	Legal Environment of Bus I	3
GB 321	Business Statistics I	3
MM 350	Prin of Management (WI)	3
MM 300	Prin of Marketing	3
Foreign Language		3
		18

2nd Semester

GB 320	Business Comm (WI)	3
Econ 350	Financial Management	3
IB 400	International Marketing*	3
Foreign Language		3
Elective		3
		15

Senior Year
1st Semester

IB 430	International Corporate Fin*	3
INTS 304	Comparative Political Econ	3
Foreign Language		3
IB 420	International Accounting	3
		12

2nd Semester

IB 410	International Management*	3
MM 452	Strategic Management	3
Foreign Language		3
Foreign Language for Bus		3
Senior Thesis or Internship		3
		15
		124

* OR IB 420 International Accounting

For additional information contact:
Mr. Terry Marion
Office: Matthews Hall 309L
Phone: (417) 625-9507
E-Mail: marion-t@mail.mssc.edu

Course Descriptions

IB 310 (F, S) 3 hrs. cr.
International Business
Introduction to the intricacies and complexities of international trade and business. The course provides an overview of the international organizations and the effects of the foreign environment on international business. The course will focus on cultural differences; theories of international trade and economic development; international finance; marketing internationally and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or Econ 201.

IB 400 (S) 3 hrs. cr.
International Marketing
This course provides students with an understanding of the principles and practices of international marketing by studies of the international marketing environment, international marketing strategies, international marketing management and international marketing organization for international companies. Prerequisites: IB 310 and MM 300.

IB 410 (S) 3 hrs. cr.
International Management
This course will focus on the development of management skills related to international business. The students will study the international business environment, international business strategy, international organizational structure and international management. Management issues for small and large international companies will be examined in the areas of management of activities, building of capabilities, management across boundaries, coordination and control, and human resource management. Prerequisites: IB 310 and MM 350.

IB 420 (Summer) 3 hrs. cr.
International Accounting
This course examines aspects of accounting operations within a multinational corporate environment. Key topics include:

1. International financial reporting and standard setting with regard to different needs in different countries, with harmonization efforts within IASC and the EU.
2. International financial statement analysis and accounting for foreign operations.
3. Accounting standards and practices in selected countries. Prerequisites: Acct 201 and 202.

IB 430 (F) 3 hrs. cr.
International Corporate Finance
This course focuses on the environment in which the international financial manager operates. Students study the risks of doing business overseas and the tools available to minimize those risks. Foreign exchange risk, political risk, foreign investments and international financing, working capital management, accounting and control are examined within this context. Prerequisites: IB 310 and Econ 350.

IB 491 (Demand) 1-12 hrs. cr.
Internship in International Business
An internship for senior International Business students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

IB 498 (Demand) 1-3 hrs. cr.
Special Topics in International Business
Special topics in international business. For upper-division students. Topics to be announced each time the course is offered.

IB 499 (Demand) 1-3 hrs. cr.
Independent Study in International Business
Individually directed readings, research and discussion in selected areas of International Business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and a minimum 3.0 GPA.

Management

Matthews Hall 309N, (417) 625-9518

Faculty Block, Bradberry, Bradshaw, Cragin, Marion, Rusley, Stevens, Vernon

The B.S.B.A. management major course of study is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

Bachelor of Science in Business Administration with an Emphasis in Management

		Semester Hours
Core Requirements (p. 33)		**51**
Business Core (p. 133)		**39**
Management Emphasis		**18**
Acct 325	Managerial Acct	3
MM 337	Management Information Systems	3
MM 352	Human Resource Mgmt	3
MM 431	Operations Mgmt	3
MM 441	Organizational Behavior	3
Select One: (MM 354, MM 410, MM 411, MM 412, GB 405)		3
Electives		**16**
		124

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0507
Management Emphasis

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year
1st Semester

Acct 201	Prin of Acct I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Using Info Systems	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Acct II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 U.S. 1877 - Pres]	3
Elective		3
		15

Junior Year
1st Semester

Acct 325	Managerial Accounting	3
GB 301	Legal Environment of Bus I	3
GB 320	Business Comm (WI)	3
MM 350	Prin of Management (WI)	3
MM 337	Mgmt Information Systems	3
		15

2nd Semester

GB 321	Business Statistics I	3
Econ 350	Financial Management	3
MM 300	Prin of Marketing	3
MM 352	Human Resource Mgmt	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)		3
Elective		3
		18

Senior Year

1st Semester

MM 431	Operations Management	3
MM 441	Organizational Behavior	3
CORE	[International Cultural Stu] (IB 310 Strongly recommended)	3
CORE	[Humanities/Fine Arts Elective] (See Core requirements, p. 33)	3
Electives		3
		15

2nd Semester

Advanced Elective (MM 354, 410, 411, or 412)		3
MM 452	Strategic Management (WI)	3
Electives		9
		15
		124

[Department Recommendations]

For additional information contact:
Dr. Bill Stevens
Office: Matthews Hall 309N
Phone: (417) 625-9518
E-Mail: stevens-b@mail.mssc.edu

Marketing

Matthews Hall 309H, (417) 625-9702

Faculty Blades, Cragin, Johnson, Kleindl, Miller

The B.S.B.A. marketing major course of study is intended to prepare graduates for positions in retailing, sales management, promotion, research and general administration.

Bachelor of Science in Business Administration with an Emphasis in Marketing

		Semester Hours
Core Requirements (p. 33)		**51**
Business Core (p. 133)		**39**
Marketing Emphasis		**9**
MM 412	Marketing Management	3
MM 432	Consumer Behavior	3
MM 470	Marketing Research	3
Choose Three [Optional Classes]		**9**
MM 312	Retailing	3
MM 321	Salesmanship	3
MM 401	Promotional Strategy	3
MM 405	Virtual Marketing	3
Electives		**16**
(Recommended)		
MM 410	Small Bus. Practicum	3
MM 491	Internship	3
Acct 325	Managerial Accounting	3
		124

Suggested Order of Study

Bachelor of Science in Business Administration
Major Code 0505
Marketing Emphasis

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Kine 101 Physical Activity]	1
		15

Sophomore Year

1st Semester

Acct 201	Prin of Acct I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Using Info Systems	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Acct II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective	(must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3
		15

Junior Year

1st Semester

GB 301	Legal Environment of Bus I	3
GB 321	Business Statistics I	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration		3
		15

2nd Semester

GB 320	Business Comm (WI)	3
MM 312	Retailing	3
MM 321	Salesmanship	3
OR		
MM 405	Virtual Marketing	
Econ 350	Financial Management	3
Electives	(must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	6
		18

Senior Year

1st Semester

MM 401	Promotional Strategy	3
OR		
MM 405	Virtual Marketing	
MM 412	Marketing Management	3
CORE	[International Cultural Studies] (IB 310 strongly recommended)	3
CORE	[Humanities/Fine Arts Elective] (See Core Requirements p. 33)	3
Electives		3
		15

2nd Semester

MM 432	Consumer Behavior	3
MM 452	Strategic Management (WI)	3
MM 470	Marketing Research	3
Electives		6
		15
		124

[Department Recommendations]

For additional information contact:
Dr. Holland Blades
Office: Matthews Hall 309H
Phone: (417) 625-9702
E-Mail: blades-h@mail.mssc.edu

Management Technology

Matthews Hall 302, (417) 625-9319

Bachelor of Science in Management Technology with an Emphasis in General Business

The B.S. in management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

(General Business Emphasis)

		Semester Hours
Core Curriculum (p. 33)		**51**
Two Year Technology Degree		**36**
Required Business Classes		**36**
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management	3
MM 237	Using Info Systems*	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
MM 431	Operations Management	3
Two additional courses selected from:		**6**
Acct 325	Managerial Accounting	
GB 321	Business Statistics I	
GB 405	Statistical Quality Control	
MM 352	Human Resource Management	
MM 354	Quality Management	
MM 401	Promotional Strategy	
MM 412	Marketing Management	
MM 452	Strategic Management (WI)	
		129

*Students obtaining an A.S. in computer science may not choose MM 237 as a required elective.

MIMS

Matthews Hall 302, (417) 625-9319

Bachelor of Science in Management Technology with an Emphasis in Manufacturing Information Management Systems (MIMS)

The School of Business Administration, in cooperation with the School of Technology, offers the bachelor of science in management technology with emphasis in manufacturing information management systems (MIMS).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration. Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

(MIMS Emphasis)

		Semester Hours
Core Curriculum (p. 33)		**51**
Associate of Science degree in Technical Studies and approval		**36**
School of Business Total		**21**
Acct 201	Prin of Accounting I	3
GB 321	Business Statistics I	3
Econ 202	Prin of Economics-Micro (Core Requirement)	3
MM 350	Prin of Management (WI)	3
MM 354	Quality Management	3
GB 405	Statistical Quality Control	3
MM 431	Operations Management	3
School of Technology Total		**21**
MIMS 310	Computer Production Planning/Control	3
MIMS 320	Applied Quality Control	3
MIMS 350	Industrial Supervision	3
CIS 315	Networking	3
MIMS 420	Manufacturing Computer Applications	3
MIMS 450	Electronic Data Systems	3
MIMS 490	Manufacturing Applications	3
		129

Suggested Order of Study

Bachelor of Science in Management Technology with an emphasis in Manufacturing Information Management Systems (MIMS)

Junior Year

1st Semester

Course		Hours
MIMS 310	Comp Prod Plan/Control	3
Acct 201	Prin of Accounting I	3
GB 321	Business Stats I	3
MM 350	Prin of Management (WI)	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 201 Econ-Macro]	3
		18

2nd Semester

MM 354	Quality Mgmt	3
GB 405	Statistical Quality Control	3
MIMS 420	Mfg Computer Appl	3
CORE	[Fine Arts/Humanities]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[IB 310 International Business]	3
		19

Senior Year

1st Semester

CIS 315	Lan Mgmt	3
MM 431	Operations Mgmt	3
MIMS 320	Applied Stat Quality Ctrl	3
MIMS 350	Ind Supervision	3
CORE	[Fine Arts/Humanities]	3
		15

2nd Semester

Econ 202	Prin of Econ-Micro	3
MIMS 450	Electronic Data Systems	3
MIMS 490	Mfg Appl	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Hist 120/320]	3
		15

For additional information contact:
Dean of School of Business Administration
Office: Matthews Hall 302
Phone: (417) 625-9319

For additional information on MIMS degree:
Dean of School of Technology
(See page 178 for course descriptions)
Office: Justice Center 126
Phone: (417) 625-9328

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

Course Descriptions

MM 237 (F, S) 3 hrs. cr.
Using Information Systems
Principles of information systems in the business environment. Covers components of personal and business information systems and introduction to industry standard application software packages (i.e. word processing, spreadsheet and internet browser). Includes hands-on use of microcomputers.

MM 300 (F, S) 3 hrs. cr.
Principles of Marketing
Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

MM 312 (F) 3 hrs. cr.
Retailing
Principles of successful retail management, including managing retail operations, administration and control, location analysis, merchandising, promotion and review of the retail environment; with analytic and research methods applicable to retail problems. Prerequisite: MM 300.

MM 321 (F) 3 hrs. cr.
Salesmanship
Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who may be videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

MM 337 (F, S) 3 hrs. cr.
Management Information Systems
Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120.

MM 350 (F, S) 3 hrs. cr.
Principles of Management *(Writing Intensive)*
A study of the planning, organizing, leading and controlling functions of management including global, social responsibility and ethical management challenges. Prerequisite: Eng 101/102 or Eng 111 & Junior standing.

MM 352 (F, S) 3 hrs. cr.
Human Resource Management
Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

MM 354 (F, S) 3 hrs. cr.
Quality Management
Quality Management (QM) is an overview of an evolving philosophy for continuous improvement of products, process and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350, GB 321 or consent of instructor.

MM 401 (S) 3 hrs. cr.
Promotional Strategy
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.

MM 405 3 hrs. cr.
Virtual Marketing
Addresses the new technological environment that marketers are facing by introducing strategic considerations related to technology and technology implementation. Explores the basics of marketing exchange utilizing the information highway, multimedia techniques, database marketing, and interactive telecommunications, also gives students hands on experience with relevant software. Prerequisites: MM 300, MM 237 (or equivalent).

MM 410 (F, S) 3 hrs. cr.
Small Business Management Practicum
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

MM 411 (Demand) 3 hrs. cr.
Labor and Employment Law
A primary emphasis on Fair Employment practices, Title VII of the Civil Rights Act and other major employer/employee legal relationship including, but not limited to, affirmative action, race, gender, age, disability, and affinity orientation discrimination. Additional topics include Fair Labor Standards Act, Immigration Reform and Control Act, worker's compensation and privacy issues. A secondary emphasis on the Labor-Management Relations Act, as amended, the bargaining unit and unfair labor practices. Prerequisite: Junior standing. Formerly GB 411.

MM 412 (F) 3 hrs. cr.
Marketing Management
Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.

MM 431 (F) 3 hrs. cr.
Operations Management
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321.

MM 432 (Demand) 3 hrs. cr.
Consumer Behavior
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

MM 441 (F, S) 3 hrs. cr.
Organizational Behavior
A study of the organization, human behavior in organizational settings and the interface between them. Prerequisite: MM 350, Senior standing.

MM 450 (Demand) 3 hrs. cr.
The Psychology of Human Resource Management
Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and the legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental methods.

MM 452 (F, S) 3 hrs. cr.
Strategic Management *(Writing Intensive)*
A capstone course integrating business disciplines with formal analyses of the organization's macro and industry environment; mission and goals; and strategy formulation, implementation and control using the case approach method. Prerequisites: Senior standing, MM 300, MM 350, Econ 350; must be taken during the last year of college work.

MM 470 (S) 3 hrs. cr.
Marketing Research
The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.

MM 491 (F, S) 1-12 hrs. cr.
Internship in Marketing/Management
An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.0 GPA and department approval.

MM 498 (Demand) 1-3 hrs. cr.
Special Topics in Marketing and Management
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

MM 499 (Demand) 1-3 hrs. cr.
Independent Study in Marketing and Management
Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and a minimum 3.0 GPA.

School of Education

Kinesiology
Psychology
Teacher Education

School of Education

School Dean

Michael John Horvath
Taylor Hall 220, 625-9314

Degrees and Majors

Bachelor of Art
Psychology

Bachelor of Science
Health Promotion and Wellness
Psychology

Bachelor of Science in Education
Elementary Education
Middle School Education
Physical Education
Secondary Education

Role

The School of Education is comprised of three departments: Kinesiology, Psychology, and Teacher Education. The combined role of these departments involves mentors and scholars dedicated to human development and to shaping communities. Additionally, the school provides support courses in physical education and psychology for the core curriculum. All departments prepare students for professional careers and/or graduate school.

The faculty serve as professional mentors for their students by demonstrating current practices that have been developed from research. The faculty also contribute to the scholarly community through research and writing within their disciplines. The goal of the school is to provide an environment where scholars can expand their knowledge and apply new skills to shape communities.

Specific goals include:

1. To acquire a working knowledge and competency in the philosophical foundation of the discipline;
2. To provide cognitive, affective, and psychomotor learning in communication, problem solving, and values clarification;
3. To develop an understanding of how humans grow and develop. This understanding includes the theoretical basis for development and how this relates to behavior;
4. To internalize an awareness of the cultural diversity that exists in society and to provide knowledge relative to the contribution made by various cultures;
5. To integrate and apply technology relative to research and professional productivity;
6. To develop awareness in the assessment of developmental and behavioral problems;
7. To develop humanitarian values, professional attitudes, and ethical standards.

Kinesiology

Robert E. Young Gymnasium 212
625-9316

Faculty Nelson - Head, Beard, Beeler, Conklin, Cooke, Corn, Frazier, Gregory, Hobbs, Lipira, O'Keefe, Ricumstrict, Rutledge, Scheible, Shoup, Townsend, Traywick, Turner, VanArsdale, Vavra,

Faculty of the department of kinesiology feel that all students of Missouri Southern State College should be trained in sound principles of fitness and wellness. It has been estimated that approximately 60% of the American population does not exercise enough. This sedentary lifestyle may manifest itself in the form of chronic conditions including heart disease, overweightness, diabetes mellitus, and some cancers. Managing these problems requires professionals who are properly educated in fitness and wellness, including exercise prescription, diet counseling, stress management, and lifestyle change. We prepare students for a wide variety of careers in education, fitness, health care, and wellness.

Physical Education

Students who desire certification as a teacher of physical education may become qualified at both the elementary and secondary level (K-12). Physical education K-12 majors should refer to page 158 where the requirements for Missouri Southern's teacher education program are described.

Health Promotion and Wellness

Students in the department of kinesiology may pursue a bachelor of science degree in health promotion and wellness. Graduates in this major will be prepared to work with people and teach life-style strategies to prevent illness and improve the quality of life. An important component of this course of study involves practical experiences with area businesses, hospitals, and the College's Wellness Program. Subsequent to the completion of the program, graduates may seek professional opportunities in the following areas:

- hospital health promotion/wellness programs
- corporate fitness/wellness programs
- fitness clubs
- YMCA, YWCA
- private trainer/wellness consultant
- graduate school
- certification from the American College of Sports Medicine

Students who wish to pursue the degree in health promotion and Wellness must have a cumulative GPA of 2.75 for all college course work prior to admission into Kine 495, Internship in Wellness.

Pre-Athletic Training

The department's pre-athletic training rogram gives a student the opportunity to obtain both classroom and "hands on" experience in the field of athletic training. Upon completion of the program a student will NOT be eligible to take the National Athletic Training Examination, but will have adequate exposure and experience to successfully pursue athletic training at the graduate school level.

The pre-athletic training program includes 800 hours of practicum experience in the Missouri Southern Athletic Training facility and utilizes a competitive selection process; therefore, not all that apply will be accepted.

Application Requirements:

1. Completed application submitted to the Director of Sports Medicine/Athletic Training Certification Program (April 1 deadline).
2. Submission of official transcripts of high school and college courses.
3. Personal interview.

Coaching

Students majoring in any teacher education program may seek a minor in coaching. The 21 hour minor provides preparation for entry into coaching.

General Information

It is the policy of the department of kinesiology that majors and minors must be ambassadors of fitness and healthy life-styles. All majors should be conscientious of, and will be assessed on, cardiovascular function, muscular strength and endurance, flexibility, and body composition. Students majoring in the department of kinesiology are required to dress appropriately (as indicated in the class syllabus) for all classes involving physical activity. Majors are strongly encouraged to become involved with professional clubs and organizations at the departmental, state, and national levels. Finally, departmental majors studying physical education K-12 will not receive endorsement for admission to the Teacher Education Program with any physical education required course grade lower than a "C".

The department's programs of study reflect guidelines from the American Alliance for Health, Physical Education, Recreation, and Dance, the National Association for Sport and Physical Education, Missouri Department of Elementary and Secondary Education, the National Athletic Trainers Association, the National Wellness Association, the American Red Cross, and requirements from the School of Education at Missouri Southern State College.

The department of kinesiology has established a relationship with the Sport Institute of Finland in Vierumaki, Finland. This agreement provides opportunities for students from Vierumaki to study at Missouri Southern, and conversely, students from Missouri Southern may visit and study in Finland. Vierumaki also hosts a biannual International Seminar for Physical Education Teachers. Missouri Southern's department of kinesiology serves as a United States' coordinator for this program.

Bachelor of Science in Education With a Major in Physical Education K-12

		Semester Hours
Core Requirements (p. 33)		**48**
Psy 120	**College Orientation**	**1**
Physical Educ Requirements		**48**
Bio 221	Human Anatomy and Physiology	5
Kine 113	Wellness for Physical Educators	2
Kine 114	Fitness Programming and Assessment	2
Kine 251	Lifetime Activities I	3
Kine 252	Lifetime Activities II	3
Kine 255	Theory & Technique of Dance & Exercise	2
Kine 310	Theory & Technique of Elementary Physical Educ I	3
Kine 312	Theory & Technique of Elementary Physical Education II	3
Kine 321	Theory & Technique of Secondary Physical Education	3
Kine 332	Rhythmic Form and Analysis	2
Kine 335	History and Philosophy of Physical Education	2
Kine 340	Motor Learning in Physical Education	2
Kine 342	Kinesiology	3
Kine 345	Tests and Measurements in Physical Education	2
Kine 365	Psychological Aspects of Physical Education	2
Kine 366	Social Aspects of Physical Education	2
Kine 375	Adapted Physical Education	2
Kine 431	Physiology of Exercise	2
Kine 450	Prevention and Care of Injuries	3
Professional Certification Requirements		**37**
Educ 100	Introduction to Teacher Education I	1
Educ 200	Introduction to Teacher Education II	1
Educ 301	Use of Computer Software in the Classroom	3
Educ 321	Microteaching	2
Educ 329	Pedagogical Theory, Methods and Practice	4
Educ 338	Teaching Physical Educ. in Secondary School	2
Educ 402	Foundations of Educ.	2
Educ 422	Content Area Literacy: Secondary	2
Educ 423	Classroom Management	2
Educ 432	Critical Issues in Educ.	2
Educ 464	Student Teaching - EL-SEC (PK-12)	8
Psy 302	The Exceptional Child	2
Psy 305	Developmental Psychology	4
Psy 310	Educational Psychology	2
TOTAL		**134**

Suggested Order of Study

Bachelor of Science in Education Physical Education PK-12 Code 0822

Freshman Year

Fall Semester

Course		Hours
Kine 113	Wellness for Physic Educ	2
Eng 101	College Composition I	3
Educ 100	Intro to Education I	1
Psy 100	General Psychology	3
Psy 120	College Orientation	1
Bio 121	Intro to Human Biology	4
Comm 100	Oral Communication	3
		17

Spring Semester

Kine 114	Fitness Prog & Assessment*	2
Eng 102	College Composition II*	3
Phys 100	Fund of Physical Science	5
CORE		6
		16

Sophomore Year

Fall Semester

Kine 251	Lifetime Activities I*	3
Educ 200	Intro to Teacher Education II	1
Bio 221	Human Anatomy & Phys*	5
Psy 310	Educational Psychology*	2
CORE		6
		17

Spring Semester

Kine 252	Lifetime Activities II*	3
Kine 255	Theory/Tech of Dance/Exer	2
Kine 335	History/Philosophy of P.E.*	2
Psy 302	The Exceptional Child*	2
CORE		9
		18

Junior Year

Fall Semester

Kine 310	Theory/Tech of Elem P.E. I*	3
Kine 321	Theory/Tech of Sec P.E.*	3
Kine 332	Rhythmic Form & Analysis*	2
Kine 340	Motor Learning in P.E.*	2
Psy 305	Developmental Psychology*	4
CORE		3
		17

Spring Semester

Kine 312	Theory/Tech of Elem P.E. II*	3
Kine 342	Kinesiology*	3
Kine 345	Tests/Measurements in P.E.*	2
Kine 366	Sociological Aspects of P.E.*	2
Educ 329	Ped Theory, Meth & Prac#	4
Educ 321	Microteaching#	2
Educ 423	Classroom Management#	2
		18

Senior Year

Fall Semester

Kine 365	Psy Aspects of P.E.*	2
Kine 375	Adapted Physical Educ.*	2
Kine 431	Physiology of Exercise*	2
Kine 450	Prev & Care of Injuries*	3
Educ 301	Computer Software	3
Educ 422	Content Area Lit: Sec	2
CORE		3
		17

Spring Semester

Educ 338	Teaching Physical Educ.	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Educ.	2
Educ 464	Student Teaching	8
		14

* Note prerequisite(s)
# Application for Junior Block courses one semester in advance

Bachelor of Science in Health Promotion and Wellness

		Semester Hours
Core Requirements (p. 33)		**47**
Psy 120 College Orientation		**1**
Health Promotion and Wellness Requirements		**77**
Bio 221	Human Anatomy & Physiology	5
Econ 202	Principles of Economics	3
GB 320	Business Communication	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3
MM 352	Human Resource Management	3
MM 441	Organizational Behavior	3
Comp 105	Introduction to Microcomputer Use	3
Psy 221	Psychology of Personal Adjustment	3
Psy 343	Human Sexuality	3
Kine 113	Wellness for Physical Educators	2
Kine 114	Fitness Programming and Assessment	2
Kine 220	First Aid (CPR)	2
Kine 251	Lifetime Activities I	3
Kine 252	Lifetime Activities II	3
Kine 255	Theory and Technique of Dance and Exercise	2
Kine 292	Fitness and Weight Training	1
Kine 295	Orientation to Health Promotion and Wellness	1
Kine 305	Aging and Health	2
Kine 340	Motor Learning	2
Kine 342	Kinesiology	3
Kine 345	Tests and Measurements in Physical Education	2
Kine 375	Adapted Physical Education	2
Kine 385	Nutrition for Human Development	3
Kine 395	Practicum in Wellness	2
Kine 431	Physiology of Exercise	2
Kine 432	Physiology of Exercise Laboratory	2
Kine 495	Internship in Wellness	6
Electives		(2 hours)
TOTAL		**124**

NOTE: Students in the Health Promotion and Wellness Program must take Math 140 during the Core Curriculum. A minimum of 128 hours are required for graduation. Students in this program should consider the following courses as electives: Bio 380, Bio 431, Chem 101, Chem 300, Chem 351, Kine 160, Kine 170, Kine 451, Soc 291, and Soc 354.

Suggested Order of Study

Bachelor of Science
Health Promotion and Wellness
Code 6000

Freshman Year

Course		Hours
Fall Semester		
Kine 113	Wellness for Phys Educators	2
Eng 101	College Composition I	3
Comm 100	Oral Communication	3
Bio 121	Intro to Human Biology	4
Math 140	Algebra and Trigonometry	5
Psy 120	College Orientation	1
		18

Spring Semester

Kine 114	Fitness Prog & Assessment*	2
Eng 102	College Composition II*	3
Comp 105	Intro to Microcomputer Use	3
Psy 100	General Psychology	3
CORE		6
		17

Sophomore Year

Fall Semester

Kine 220	First Aid (CPR)	2
Kine 251	Lifetime Activities I*	3
Bio 221	Human Anatomy and Phys*	5
Econ 202	Principles of Economics*	3
Psy 212	Psy of Personal Adjustment*	3
		16

Spring Semester

Kine 252	Lifetime Activities II*	3
Kine 255	Theory/Tech of Dance/Exer*	2
MM 300	Principles of Marketing*	3
Phys 100	Fund of Physical Science	5
CORE		3
		16

Junior Year

Fall Semester

Kine 292	Fitness/Weight Training	1
Kine 295	Orient. to Health Prom/Wllns*	1
Kine 340	Motor Learning in P.E.*	2
Kine 431	Physiology of Exercise*	2
Kine 432	Physiology of Exercise Lab*	2
MM 350	Principles of Management*	3
CORE		3
		14

Spring Semester

Kine 305	Aging and Health*	2
Kine 342	Kinesiology*	3
Kine 345	Tests/Measurements in P.E.*	2
GB 320	Business Communication*	3
CORE		6
		16

Senior Year

Fall Semester

Kine 375	Adapted Physical Educ.*	2
Kine 385	Nutrition for Human Dev*	3
Kine 395	Practicum in Wellness*	2
Kine 450	Prevention/Care of Injuries*	3
MM 352	Human Resource Management*	3
Psy 343	Human Sexuality*	3
		16

Spring Semester

Kine 495	Internship in Wellness*	6
MM 441	Organizational Behavior*	3
CORE and Electives		6
		15

* Note prerequisite(s)

Pre-Athletic Training

		Semester Hours
Bio 201	Human Anatomy	4
Bio 301	Human Physiology	4
Kine 220	First Aid (CPR)	2
Kine 342	Kinesiology	3
Kine 385	Nutrition for Human Development	3
Kine 431	Physiology of Exercise	2
Kine 450	Prevention and Care of Injuries	3

Kine 451	Advanced Athletic Training	2
TOTAL		**23**

(plus 800 practicum hours)

Minor in Coaching

		Semester Hours
Bio 221	Human Anatomy and Physiology	5
Kine 150	Rules and Officiating	3
Kine 342	Kinesiology	3
Kine 431	Physiology of Exercise	2
Kine 450	Prevention and Care of Injuries	3

Select a minimum of five hours from the following:

Kine 260	Theory of Basketball	2
Kine 261	Theory of Football	2
Kine 262	Theory of Track and Field	2
Kine 263	Theory of Volleyball	2
Kine 264	Theory of Baseball	2
Kine 265	Theory of Coaching Soccer	1
TOTAL		**21**

For additonal information contact:
Dirk Nelson
Office: Young Gymnasium 214
Phone: 625-9576
E-mail: nelson-d@mail.mssc.edu

Course Descriptions

Kine 101 (F,S) 1 hr. cr.
Introduction to Physical Activities
Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week.

Kine 103 (F,S) 2 hrs. cr.
Lifetime Wellness
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course of Core Curriculum.

Kine 113 (F, S) 2 hrs. cr.
Wellness for Physical Educators
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required for and limited to Kine majors.

Kine 114 (F, S) 2 hrs. cr.
Fitness Programming and Assessment
Designed to teach introductory theory and technique in exercise programming and testing. Techniques for conducting physical fitness assessments are studied. Tests of cardiorespiratory fitness, muscular strength and endurance, joint flexibility, body composition, and pulmonary capacity are addressed. Prerequisite: Kine 113.

Kine 150 (F,S) 3 hrs. cr.
Rules and Officiating of Team Sports
Knowledge and skills for officiating basketball, volleyball, softball, baseball, and football; officiating laboratory required in some areas. Open to all students.

Kine 160 (F) 2 hrs. cr.
Personal and Community Health
Study of the major risk factors determining health status, with special considerations given to principles and practices of good health for individual and community concerns, including personal and community assessments, body mechanics, nutrition, legal and illegal substances, responsible sexual behavior, mental health, and the cause and prevention of disease. Not recommended for elementary education majors.

Kine 170 (S) 2 hrs. cr.
Drug Education
Examine the dimensions and problems of drug use and abuse in our society. Basic information on drug classifications, as well as specific content areas dealing with pharmacology, legislation, drug tresting, drug education and prevention efforts will be covered. Key societal influences will be addressed including drugs in the workplace, in sports, in medicine, and throughout our culture.

Kine 220 (F,S) 2 hrs. cr.
First Aid
Designed to complete the standard course of the American Red Cross in First Aid.

Kine 222 (F,S) 1 hr. cr.
Varsity Cheerleading
Activities: Cheerleading practice for cheers, chants, and stunts. Open only to MSSC cheerleaders; class meets twice each week.

Kine 251 (F) 3 hrs. cr.
Lifetime Activities I
Study of the skills and understanding of selected lifetime activities: games, sports, and recreational activities commonly found in the school physical education curriculum. Students demonstrate minimum levels of proficiency. Enrollment restricted to Kine majors. Prerequisite: Kine 114.

Kine 252 (S) 3 hrs. cr.
Lifetime Activities II
Skills and understanding of selected activities: sports and recreational activities. Students are required to demonstrate minimum levels of proficiency. Prerequisite: Kine 251.

Kine 255 (S) 2 hrs. cr.
Theory and Technique of Dance and Exercise
Provides the prospective physical educator fundamentals necessary to teach areas of dance and exercise.

Kine 260 (S) 2 hrs. cr.
Theory of Basketball
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, and problems arising during training and regular playing season.

Kine 261 (S) 2 hrs. cr.
Theory of Football
Attention to team play, systems of offense and defense, field strategy, discussion of the rules, training, and equipment.

Kine 262 (S) 2 hrs. cr.
Theory of Track and Field
Organization and administration of meets, coaching, physical conditioning, and training for each event in track and field programs.

Kine 263 (F) 2 hr. cr.
Theory of Coaching Volleyball
Organization and management of volleyball competition. Offensive and defensive systems, rules, strategies, drills, and fundamentals are studied.

Kine 264 (F) 2 hrs. cr.
Theory of Baseball
Organization and management of a school baseball program including individual techniques, team play, and problems in coaching baseball.

Kine 265 (on demand) 1 hr. cr.
Theory of Coaching Soccer
Organization and management of soccer competition. Systems of offense and defense, rules, strategy, and fundamentals of soccer are studied.

Kine 292 (F,S) 1 hr. cr.
Fitness and Weight Training
Aimed at developing a student's personal weight training and aerobics program. May be used to meet Core Curriculum physical activity requirement.

Kine 295 (F, S) 1 hr. cr.
Orientation to Health Promotion and Wellness
An orientation to health promotion and wellness. A 15 clock-hour field based component is a part of this class. Students will receive initial exposure to community and hospital health promotion and wellness programs as well as Southern's Wellness Program. Limited to Kine majors. Prerequisites: Kine 114 and Kine 220.

Kine 305 (S) 2 hrs. cr.
Aging and Health
Investigates the health status of the elderly in the United States, how the older population has changed from the past, and how it may change in the future. Explore how exercise can retard some of the effects of aging. Prerequisite: Kine 103 or Kine 113.

Kine 310 (F) 3 hrs. cr.
Theory and Technique of Elementary Physical Education I
Procedures and techniques for planning and curriculum for elementary school physical education. Limited to Kine majors. Prerequisite: Kine 252.

Kine 311 (F,S) 2 hrs. cr.
Physical Education for the Elementary School
Methods and materials needed for directing games, skills, rhythm, and stunts for the elementary school child. Designed for elementary level teaching certificate candidates. Prerequisite: 30 hours.

Kine 312 (S) 3 hrs. cr.
Theory and Technique of Elementary Physical Education II
Analysis of basic movement patterns, basic skills, and rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: Kine 310.

Kine 321 (F) 3 hrs. cr.
Theory and Technique of Secondary Physical Education
Offers pedagogical considerations necessary to develop teaching methodologies relative to lesson plan construction, class organization, and evaluation of students. Teaching sessions will provide the opportunity to experience a variety of teaching methods and organizational styles. Enrollment restricted to Kine majors. Prerequisite: Kine 252.

Kine 325 (F,S) 1-8 hrs. cr.
Internship in Physical Therapy Procedures
Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: one year of athletic training work, junior standing, and approval of departmental committee.

Kine 332 (F) 2 hrs. cr.
Rhythmic Form and Analysis
Analysis of dance forms showing how complex music and dance forms have evolved. Recommended for elementary education majors. Prerequisite: Kine 252 or permission.

Kine 335 (S) 2 hrs. cr.
History and Philosophy of Physical Education
Changing role of physical education from past to present as evidenced through the influence of the various philosophies. Prerequisite: Kine 252 or current enrollment in Kine 252.

Kine 340 (F,S) 2 hrs. cr.
Motor Learning in Physical Education
Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social, and emotional development of children and their effects on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: 30 hours.

Kine 342 (S) 3 hrs. cr.
Kinesiological Approach to Movement
A kinesiological and mechanical approach to the structure and processes of human movement and their modification by inherent factors, by environmental events, and by therapeutic intervention. Students will develop a knowledge of human movement from a mechanical perspective. Prerequisite: Bio 221.

Kine 345 (S) 2 hrs. cr.
Tests and Measurements in Physical Education
Training and techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis.

Kine 365 (F) 2 hrs. cr.
Psychological Aspects of Physical Education (Writing Intensive)
Behavior exhibited in the learning of skills and physical performance related to psychological concepts connected with the demands of physical activities. Particular attention given to self-efficacy, motivation, and participation and their effect on physical performance and personal wellness. Prerequisite: Kine 252.

Kine 366 (S) 2 hrs. cr.
Social Aspects of Physical Education
Knowledge of the sociological aspects of physical activity relevant to physical education in schools. Particular attention given to the role of physical activity in social, ethical, and moral development of citizens. Prerequisite: Kine 252.

Kine 370 (F,S) 3 hrs. cr.
School Health Education (Writing Intensive)
Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors. Separate sections on health and nutrition for children. Prerequisite: Educ 329 or current enrollment in Educ 329.

Kine 375 (F) 2 hrs. cr.
Adapted Physical Education
Provides information and practices to assist professionals in designing and implementing approriate physical education for individuals with disabilities. Prerequisite: Kine 252 or permission.

Kine 385 (F,S) 3 hrs. cr.
Nutrition for Human Development
Nutrition associated with human development and performance, physiological and biochemical bases of nutrient absorption and utilization. Particular attention to evaluating and developing nutrition strategies for optimal child growth and development and exercise performance. Prerequisite: any biology or chemistry course.

Kine 395 (F,S) 2 hrs. cr.
Practicum in Wellness
Students perform duties in the Missouri Southern State College Wellness Program. Experience will provide the student with the opportunity to apply skills and knowledge in the wellness program. Student and faculty will develop a contractual agreement for specific learning experiences in the practicum. Prerequisite: Kine 295.

Kine 431 (F) 2 hrs. cr.
Physiology of Exercise
For students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 221

Kine 432 (F) 2 hrs. cr.
Physiology of Exercise Laboratory
Lab activities for students having a background in physiology. Emphasis on equipment and techniques used in the assessment of human response to exercise. Prerequisite: Bio 221

Kine 450 (F,S) 3 hrs. cr.
Prevention and Care of Injuries
Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: Kine 342.

Kine 451 (S) 2 hrs. cr.
Advanced Athletic Training
A study of professional relationships, pharmacology, special problems in athletics, exercise programs, and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: Kine 450.

Kine 470 (F) 2 hrs. cr.
Administration of Physical Education
Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment, and facilities. Study of intramural programs. Prerequisite: 20 hours of Kine.

Kine 495 (F, S) 6 hrs. cr.
Internship in Wellness
Extensive, off-campus internship providing opportunity for students to be an integral component of a wellness or health promotion facility. Students and on-site supervisor will develop a contractual agreement that provides specific learning experiences for the internship. Prerequisites: health promotion and wellness major, application for experience at least one semester in advance, and consent of department committee.

Kine 498 (on demand) 1-3 hrs. cr.
Seminar in Health or Physical Education
A thorough study of an advanced problem in health or physical education for selected students. Prerequisites: senior standing, permission of department head.

Kine 499 (F,S) 1-3 hrs. cr.
Independent Study
Research of a problem or field of study relating to kinesiology. Material, content, credit, and schedule to be arranged by the department head. Prerequisites: senior standing, 3.0 GPA in major and permission of department head.

The following courses may be repeated three times:

Kine 101	(F, S) – Introduction to Physical Activities	1 hr. cr.
Kine 161	(F) - Varsity Football	1 hr. cr.
Kine 162	(F) - Varsity Basketball	1 hr. cr.
Kine 163	(F) - Varsity Volleyball	1 hr. cr.
Kine 171	(F) - Varsity Cross Country	1 hr. cr.
Kine 172	(S) - Varsity Track & Field	1 hr. cr.
Kine 180	(S) - Varsity Golf	1 hr. cr.
Kine 182	(S) - Varsity Baseball	1 hr. cr.
Kine 183	(S) - Varsity Softball	1 hr. cr.
Kine 191	(F) - Varsity Soccer	1 hr. cr.
Kine 192	(S) - Varsity Tennis	1 hr. cr.
Kine 292	(S) - Fitness & Weight Training	1 hr. cr

Psychology

Taylor Hall 206, 625-9315

Faculty Griffin-Head, Babbitt, Cochran, Cole, Huffman, McDermid, Murdock, Paige

The psychology department offers two degrees: the bachelor of arts (B.A.) and the bachelor of science (B.S.). Both degrees have the same requirements in the core and psychology. The B.A. includes an emphasis on foreign language; the B.S. includes an emphasis in math or science. Both degrees prepare students for careers that require a broad liberal arts education at the bachelor's level. Recent graduates with the bachelor's degree (B.A. & B.S.) have entered careers in human and social services, research, and business. The B.A. and B.S. degrees provide an excellent foundation for students who wish to earn advanced graduate degrees in pursuit of a career in psychology. Almost half of the recent graduates have entered into master's or doctoral programs.

Many psychology courses are taken by students with other majors. PSY 100 fulfills a requirement in the Core Curriculum. Several degrees require supporting courses in psychology. Students may also obtain a minor in psychology.

Student Organizations

Psychology Club is open to all students who are interested in psychology. The club provides an informal setting for students to learn more about psychology. The club sponsors a wide variety of activities each semester.

Psi Chi is the national honor society in psychology. Psi Chi recognizes academic excellence and stimulates further scholarship. Psi Chi members are invited to participate in national and regional professional organizations. Locally the Psi Chi members share many activities with the Psychology Club.

Bachelor of Arts in Psychology

		Semester Hours
Core Requirements (p. 33)		**51**
Psychology Requirements		**46**
Psy 100	General Psychology *	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 300	Child Development (3)	
AND		
Psy 301	Adolescent Psychology (3)	4-6
Psy 320	Applied Statistics	3
Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology	5
Psy 386	Learning Theory	3
Psy 411	Psychology of Sensation And Perception	
OR		
Psy 415	Animal Behavior	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 390	Junior Seminar	1
Psy 443	Memory & Cognition	3
Psy 452	History & Systems of Psychology	3
Psy 481	Senior Thesis	3
Psychology Electives		9
Supporting Area		**15**

The supporting area requires at least 15 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology, or other area approved by the adviser and the department.

Foreign Language*	**12**
Elective	6
	124

*These courses meet a 3 hour core requirement

Bachelor of Science in Psychology

		Semester Hours
Core Requirements (p. 33)		**51**
Psychology Requirements		**46**
Psy 100	General Psychology *	3
Psy 305	Development Psychology (4)	
OR		
Psy 300	Child Development (3)	
AND		
Psy 301	Adolescent Psychology (3)	4-6
Psy 320	Applied Statistics	3
Psy 325	Computers in the Behavioral Science	3
Psy 330	Experimental Psychology	5
Psy 386	Learning Theory	3
Psy 411	Psychology of Sensation And Perception	
OR		
Psy 415	Animal Behavior	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 390	Junior Seminar	1
Psy 443	Memory & Cognition	3
Psy 452	History and Systems of Psychology	3
Psy 481	Senior Thesis	3
Psychology Electives		9
Supporting Area		**15**

The supporting area requires at least 15 hours in one of the following areas: biology, chemistry, computer science, criminal justice, mathematics, physics, or other area approved by the adviser and the department.

Additional hours of science	9
Electives	6
	124

*These courses meet a 3 hour core requirement.

Minor in Psychology

Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 301	Adolescent Psychology (3)	
OR		
Psy 300	Child Development (3)	3-4
Psy 320 Applied Statistics		3
Psychology Electives*		11-12
		21

*Select with approval of a psychology adviser.

A minor in psychology complements many majors providing knowledge and skills concerning personal, interpersonal, and group behavior. A psychology adviser will help students minoring in psychology to select method and content courses appropriate to their goals.

Suggested Order of Study

Bachelor of Arts
Major Code 2001
Psychology Major

Freshman Year
1st Semester

Course		Hours
Psy 100	General Psychology	3
Psy 120	College Orientation	1
CORE	[Eng 101 Comp 1] WI	3
CORE	[Math 110, 130, 131]	3
CORE	[Core Electives]	5
		15

2nd Semester

Psy 305	Developmental Psy	4
CORE	[Eng 102 WI (Eng 101)	3
CORE	[Bio 101 Gen Bio]	4
CORE	[Core Electives]	6
		17

Sophomore Year
1st Semester

Psy 320	Applied Stat (Psy 100)	3
Psy 341	Social Psychology*	
OR		
Psy 411	Sensation & Perception*	
OR		
Psy 415	Animal Behavior*	3
CORE	[Core Electives]	6
Foreign Language		3
		15

2nd Semester

Psy 325	Com in Behav Sci (Psy320)	3
Psychology Elective		3
Supporting Area		3
CORE	[Core Elective]	3
Foreign Language		3
		15

Junior Year
1st Semester

Psy 330	Exper Psy WI (Psy 325)	5
Supporting Area		3
CORE	[Core Elective]	4
Foreign Language		3
		15

2nd Semester

Psy 390	Junior Seminar** WI	1
Psy 442	Physiological Psy**	
OR		
Psy 422	Theories of Personality**	3
Psy 386	Learning Theory (Psy 320)**	3
Supporting Area		6
CORE	[Core Elective]	2
Foreign Language		3
		18

Senior Year
1st Semester

Psy 443	Mem &Cog (Psy330)*	3
Psychology Elective		6
Supporting Area		3
CORE	[CORE Elective]	3
		15

2nd Semester

Psy 452	History & Sys (Psy330)**	3
Psy 481	Senior Thesis WI	3
CORE	[CORE Elective]	3
Electives		5
		14

*Offered fall semester only
**Offered spring semester only
(Prerequisites)
[Department Recommendations]

Bachelor of Science
Major Code 2000
Psychology Major

Freshman Year
1st Semester

Course		Hours
Psy 100	General Psychology	3
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I] WI	3
CORE	[Math 110,130 or 131]	3
CORE	[CORE Electives]	5
		15

2nd Semester

Psy 305	Developmental Psy	4
CORE	[Eng 102 (Eng 101)]WI	3
CORE	[Bio 101 Gen Biology]	4
CORE	[CORE Electives]	6
		17

Sophomore Year
1st Semester

Psy 320	Applied Stat (Psy 100)	3
Psy 341	Social Psychology*	
OR		
Psy 411	Sensation & Perception*	
OR		
Psy 415	Animal Behavior*	3
CORE	[CORE Electives]	6
Science		3
		15

2nd Semester

Psy 325	Com in Behav Sci (Psy320)	3
Psychology Elective		3
Supporting Area		3
CORE	[CORE Elective]	3
Science		3
		15

Junior Year
1st Semester

Psy 330	Exper Psy WI (Psy325)	5
Supporting Area		3
CORE	[CORE Electives]	6
Science		3
		17

2nd Semester

Psy 390	Junior Seminar** WI	1
Psy 442	Physiological Psy**	
OR		
Psy 422	Theories of Personality**	3
Psy 386	Learning Theory	3
Supporting Area		6
CORE	[CORE Electives]	3
		16

Senior Year
1st Semester

Psy 443	Mem & Cog (Psy 330)*	3
Psychology Elective		6
Supporting Area		3
CORE	[CORE Electives]	3
		15

2nd Semester

Psy 452	History & Sys (Psy330)**	3
Psy 481	Senior Thesis WI	3
CORE	[CORE Elective]	3
Electives		5
		14

*Offered fall semester only
**Offered spring semester only
(Prerequisites)
[Department Recommendations]

Other Requirements
Nine hours are required from math, computer science, chemistry, biology and/or physics, in addition to all other requirements. These replace the foreign language requirement.

For additional information contact:
Dr. Betsy Q. Griffin
Office: Taylor Hall 209
Phone: 625-9306
E-Mail: griffin-b@mail.mssc.edu

Course Descriptions

Psy 100 (F,S) 3 hrs. cr.
General Psychology
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the CORE Curriculum requirement.

Psy 100 (F) 3 hrs. cr.
General Psychology-Honors
Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

Psy 105 1 hr. cr.
Career and Life Planning
Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major or minor.

Psy 120 (F,S) 1 hr. cr.
College Orientation
A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment, and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major or minor.

Psy 221 (F,S) 3 hrs. cr.
Psychology of Personal Adjustment
Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills.

Psy 298 (Demand) 1-3 hr. cr.
Special Topics in Psychology
Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Psy 300 (F,S) 3 hrs. cr.
Child Development
Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems, and function in home and school environments. Prerequisite: Psy 100. No credit will be given if Psy 305 has been completed.

Psy 301 (F,S) 3 hrs. cr.
Adolescent Psychology
Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100. No credit will be given if Psy 305 has been completed.

Psy 302 (F,S) 2 hrs. cr.
The Exceptional Child
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 300, Psy 301, or Psy 305.

Psy 305 (F,S) 4 hrs cr.
Developmental Psychology
Aspects of human development during conception, infancy, childhood, transescence to adolescence will be examined, including, physical, emotional, social, and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

Psy 310 (F,S) 2 hrs. cr.
Educational Psychology
Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on the learner, the learning process, and the learning situation. Prerequisite: Psy 100.

Psy 320 (F,S) 3 hrs. cr.
Applied Statistics for the Behavioral and Natural Sciences
Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 (or permission) and Math 110, 130 or 131.

Psy 325 (F,S) 3 hrs. cr.
Computers in the Behavioral Sciences
Applications of computers in behavioral sciences with an emphasis on statistical analysis, data collection, and report generation. Prerequisite: Psy 320.

Psy 330 (F,S) 5 hrs. cr.
Experimental Psychology *(Writing Intensive)*
The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite or corequisite: Psy 325

Psy 341 (F) 3 hrs. cr.
Social Psychology
Introduction to the study of individuals' thoughts, feelings, and behaviors as they are influenced by their social environment, including interpersonal, intragroup, and intergroup influences. Prerequisite: Psy 100.

Psy 343 (Demand) 3 hrs. cr.
Human Sexuality
Surveys current research and theory related to human sexuality. Human sexual behavior and attitudes will be viewed from biological, psychological, historical, and cultural perspectives. Prerequisites: Psy 100.

Psy 382 (F) 3 hrs. cr.
Introduction to Behavior Management
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory, as well as practical settings. Prerequisite: Psy 100.

Psy 386 (S) 3 hrs. cr.
Learning Theory
Leading theories and research in the field of learning. Both animal and human studies will be discussed. Topics include Non-Associative Learning, Classical Conditioning, Instrumental Learning, Stimulus Control of Behavior, Punishment, Avoidance Behavior, and Cognitive Processes. Prerequisite: Psy 320.

Psy 390 (S) 1 hr. cr.
Junior Seminar *(Writing Intensive)*
For Junior Psychology majors. Information & experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment. Corequisite or Prerequisite: Psy 320.

Psy 411 (F,Even) 3 hrs. cr.
Psychology of Sensation and Perception
Includes classical and modern psychophysical techniques. The physiology of various sensory systems, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.

Psy 412 (F,S) 2 hrs. cr.
Measurement and Evaluation in Education and Psychology
Explores theories and problems of measurement and the assessment of learning. Contemporary and classical approaches to measuring achievement in the educational setting are examined. Prerequisite: Psy 310 or consent of instructor.

Psy 415 (F,Odd) 3 hrs. cr.
Animal Behavior
Classic studies and current research in animal behavior from a phylogenetic and ontogenetic perspective. Includes theoretical approaches, ethological methods, ethical concerns, sensory capacities, learning, cognition, and social behavior of animals. Field observations and experimental research for each topic. Field trips are planned to supplement lectures and discussions. Prerequisites: Psy 100 and Bio 101 or permission of the instructor.

Psy 422 (S) 3 hrs. cr.
Theories of Personality
Survey of major contemporary theories of personality, issues of personality assessment, and current research. Prerequisite: Psy 100 and junior standing.

Psy 432 (S) 3 hrs. cr.
Abnormal Psychology
Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: Psy 100.

Psy 435 (F,Odd) 3 hrs. cr.
Clinical Psychology
Survey of history, current methods, guild issues and future developments of clinical practice. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.

Psy 442 (S) 3 hrs. cr.
Physiological Psychology
Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language, and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.

Psy 443 (F) 3 hrs. cr.
Memory and Cognition
Designed to acquaint the student with the major issues and current research findings in the area of memory and cognitive processes. General topics include sensory, short-term and long-term memory; psychology and law; and artifical intelligence. Prerequisite: Psy 330.

Psy 450 (S) 3 hrs. cr.
Psychology of Human Resources
An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits, and legal environment. Experiential and theoretical methods will be used. Prerequisite: Psy 100 or MM350 or permission of instructor.

Psy 452 (S) 3 hrs. cr.
History and Systems of Psychology
Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.

Psy 460 (Demand) 3 hrs. cr.
Advanced Research Projects
Advances the research skills in psychology beyond what is learned in Psy 330. Students will conceive, design, gather, and analyze the data and write up a naturalistic observation, a survey, or an experiment of their own choosing. Students will function as sole investigators or as members of a team. The final research project can serve as a pilot study for the students' senior thesis as well as provide a project for presentation at a professional research conference. Prerequisite: Psy 330 or permission of the instructor.

Psy 470 3 hrs. cr.
Psychological Measurement
Examines classical and contemporary theories and practices in psychological measurement. Students apply measurement theory in the construction of an original instrument and establish the properties of reliability and validity. Prerequisites: 12 hours of psychology course work including Psy 320.

Psy 481 3 hrs. cr.
Senior Thesis *(Writing Intensive)*
Students design and conduct research projects resulting in a written thesis and an oral presentation. Prerequisite: Psy 330 and Senior Standing.

Psy 498 (Demand) 1-3 hrs. cr.
Seminar in Psychology
Specialized knowledge and/or current research in psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked (H) in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instructor.

Psy 499 (Demand) 1-3 hrs. cr.
Independent Study
Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.

Teacher Education

Taylor Hall 232, 625-9309

Faculty Smith-Head, Abight, Banks, Deacon, Fagundes, Neufeld, Overdeer, Pulliam, Scholl, Spencer

All teacher education programs have been approved by the Missouri Department of Elementary and Secondary Education (DESE) and accredited by the National Council for the Accreditation of Teacher Education (NCATE).

Program Objectives

Objectives for all programs in teacher education can be found in the *Teacher Education Program Policy Handbook For Faculty* and in the *Teacher Education Program Policy Handbook for Students.* Objectives for the student teaching program can be found in the *Policy Handbook for Student Teachers, Cooperating Teachers, and College Supervisors.*

Teacher Education

The descriptions of the teacher education programs and the requirements that are listed for each program in teacher education in this catalog are subject to change during the period that this catalog is in use. As changes are made by the State Department of Elemenary and Secondary Education, legislative and regulatory bodies, and accrediting agencies, students in the program will be alerted through the advising process. Teacher education students are responsible for their programs of study. They are encouraged to obtain degree plan sheets for the program they are pursuing and work closely with their advisers.

Eligibility for current certification is a requirement for graduation.

The teacher education program consists of the Teacher Education Department as the governing unit, the Secondary Education Committee which oversees the programs in secondary education, the Teacher Education Council, and the Committee on Admissions and Retention.

The Teacher Education Department, in its function as the governing unit in teacher education, oversees all teacher education programs and is specifically responsible for the elementary education program grades 1 through 6, early childhood education program grades pre-kindergarten through grade 3, middle school program grades 5 through 9, reading education program grades K through 12, special education programs grades K through 12, and TESOL program grades K through 12.

The Dean of the School of Education is the chief spokesman for the teacher education program and in this capacity is the chief administrator responsible for the teacher education programs. The dean serves under the direction of the President of the College, Senior Vice President, and the Vice President for Academic Affairs.

The teacher education program is based on a decision making model which defines the role of the teacher as an instructional decision maker. In this role, the teacher must

make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology, and program evaluation. Decisions about lesson design include communications, use of science, technology, and the arts, problem solving, values clarification, intellectual domains, and social institutions. An extension of the role of the teacher as an instructional decision maker includes the teacher as a learner, provider of services, researcher, and change agent.

Central to the preparation for teaching is the conceptual framework, composed of knowledge, skills, and techniques that have been gathered from research, reported effective practices, and learned societies in such areas as human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, psychological, sociological, historical, and philosophical foundations, principles of effective instruction, and school effectiveness.

In order to be an instructional decision maker, the teacher must possess certain knowledge, cognitive abilities, and pedagogical skills. These are included in the following 10 standards:

1. The preservice teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) within the context of a global society and creates learning experiences that make these aspects of subject matter meaningful for students.

2. The preservice teacher understands how students learn and develop, and provides learning opportunities that support the intellectual, social, and personal development of all students.

3. The preservice teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.

4. The preservice teacher recognizes the importance of long-range planning and curriculum development and develops, implements, and evaluates curriculum based upon student, district, and state performance standards.

5. The preservice teacher uses a variety of instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills.

6. The preservice teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.

7. The preservice teacher models effective verbal, noverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.

8. The preservice teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of the learner.

9. The preservice teacher is a reflective practitioner who continually assesses the effects of choices and actions on others. This reflective practitioner actively seeks out opportunities to grow professionally and utilize the assessment and professional growth to generate more learning for more students.

10. The preservice teacher fosters relationships with school colleagues, parents and educational partners in the larger community to support student learning and well-being.

Admission to the Teacher Education Program

After the student declares a major in education, two levels of admission to the teacher education program exist.

The first level is application for tentative formal admission.

Applications for formal admission to the teacher education program may be filed with the Dean of the School of Education after the student has declared an education major and successfully completed 55 semester hours of prescribed course work. The deadline for application is the third week in February for those seeking formal admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the third week in October. Students must have tentative formal admittance before courses can be taken in professional education. Courses with an EDUC prefix cannot be taken until the Junior Block (Educ 329, 321, & 423) has been completed, except for Educ 100, Educ 200, Educ 301, and Educ 302, which may be taken at any time. Educ 316, Educ 324, Educ 342, Educ 380, Educ 422, and Educ 480 may be taken concurrently with the Junior Block classes.

Qualifications for tentative formal admission include the following:

1. Submit a completed application that is signed by the student's adviser.

2. Have a cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.

3. Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)

4. Have a composite ACT enhanced score of 20 or a SAT (VM) of 800.

5. Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.

6. Submit a passing evaluation in speech from the communications department.

7. Convicted felons must identify themselves by so indicating on the application for admission form. Upon identification the student will need to make certain documents and information available to the Admissions and Retention Committee of the Teacher Education Program, i.e., conviction status, probation information, recommendations from court and public officials associated with the conviction. This process must be repeated when application is made for student teaching. There is a process that convicted felons must follow before consideration is given for certification in the State of Missouri. Failure to identify oneself will cause the student to be removed from the program at once.

When students complete these qualifications, they will receive tentative formal admittance to the teacher education program and notification from the Dean. Students who fail to

gain tentative formal admission also will be notified by the Dean. Reasons for failure to gain tentative formal admission will be stated, along with suggested corrective measures should the student wish to continue pursuing formal admission.

The second level is formal admission, which is granted after the student successfully completes the eight credit hour Junior Block: Educ 329, Pedagogical Theory, Methods, and Practices; Educ 321, Micro Teaching; and Educ 423, Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dismissed from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, middle school education, secondary education, special education, and early childhood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifying for formal admission to the program will be notified in writing by the Dean. The date of formal admission will be entered on the student's record by the Registrar. Students who have not met the criteria will also be notified and corrective measures suggested.

Admission to Student Teaching

After completion of Educ 329, Pedagogical Theory, Methods, and Practices, but before the professional semester, students in early childhood education, elementary education, middle school education, and special education take approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must earn a "C" or better in all professional education courses, and must retake courses in which a grade lower than "C" is earned. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. Requirements that must be met prior to admission to student teaching are:

1. Be fully admitted to the teacher education program.
2. Have a cumulative GPA of 2.75.
3. Have all previous course work completed at the time of student teaching.
4. Have a completed application for student teaching on file at least one semester prior to the student teaching semester.
5. Have a grade of "C" or better in each professional education course.
6. Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.
7. Convicted felons must complete the form provided upon applying for admission to student teaching.

The student teaching program is intended for students who have met all of the requirements for student teaching at Missouri Southern State College.

Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

1. Demonstrate mastery of pedagogical knowledge and skills included in the 10 standards which are required of all teacher education students.
2. Submit a portfolio of the student's work in the teacher education program for faculty assessment.
3. Have a cumulative GPA of 2.75 or higher.
4. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
5. Pass the Professional Knowledge Test of the National Teachers Exam (The PRAXIS Series).
6. Pass the Teaching Specialty Exam of the National Teachers Examination (The PRAXIS Series).
7. Successfully complete student teaching.
8. As part of the authentic assessment procedures, each student must have a successful exit interview.
9. Be eligible for current Missouri teacher certification.

Advisement

Advisers will be assigned to students upon admission to the college. For those without advisers, freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100, Introduction to Teacher Education I, and sophomores declaring a major in teacher education will be assigned advisers in Educ 200, Introduction to Teacher Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area, due to the many specific course requirements and entrance and exit requirements for teacher education.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

General Information

Students who select teacher education may choose from the following programs:

1. Elementary Education (grades 1-6) with a 21 hour concentration.
   Choose one:
   Art
   Business
   English
   Physical Education
   Mathematics
   Music
   Reading
   Science
   Social Studies
   Speech/Theatre Education
2. Elementary Education (1-6) / Early Childhood Education. (Pre-Kindergarten - grade 3).
3. Elementary Education (1-6)/ Special Education (K-12).
4. Elementary Education (1-6)/ TESOL (K-12)

5. Middle School Education (5-9) with two concentrations: Choose two:
   Language Arts
   Social Studies
   Mathematics
   Science

6. Secondary Education (9-12) with one or two specialties. Choose one specialty (Plan B) or two specialties (Plan A) from the following list:
   Business Education
   English
   Mathematics
   Physical Education
   *Social Studies
   Speech/Theatre
   Unified Science *(with a choice of Biology, Chemistry, or Physics endorsement).*

*Plan A not available.

7. K-12 Education
   Choose one from the following list:
   Art
   Music *(vocal or instrumental)*
   Physical Education
   Spanish

All students in teacher education must be tentatively admitted to teacher education prior to taking professional education courses. The admission point for teacher education is in the second semester of the sophomore year. Preparation for admission by the student can begin at any time. If the ACT score is lower than 20, the test can be retaken anytime prior to applying for tentative admission.

The Missouri C-Base Test should be taken in the second semester of the sophomore year.

All students who enter Missouri Southern as freshmen teacher education students are required to take Educ 100, Introduction to Teacher Education I, during their freshman year and Educ 200, Introduction to Education II, during their sophomore year. Students who transfer into MSSC at the point of formal admission into the Teacher Education Program are not required to take these two courses.

Psychology Requirements

All education majors must take Psy 310, Educational Psychology.

Elementary education students *(grades 1 through 6)* and early childhood education students *(grades pre-kindergarten through grade 3)* must take Psy 100, General Psychology and Psy 300, Child Development.

Middle school education students *(grades 5 through 9)*, special education students *(K through 12)*, music education students *(grades K through 12)*, art education students *(grades K through 12)*, physical education students *(grades K through 12)*, Spanish education students *(grades K through 12)*, TESOL students, and reading education students *(grades K through 12)* must take Psy 100, General Psychology and Psy 305, Developmental Psychology.

Secondary education students in business education, English education, mathematics education, physical education, social studies education, speech/theatre education, or unified science education must take Psy 100, General Psychology and Psy 301, Adolescent Psychology.

Certification

Students majoring in elementary education, elementary education/early childhood education, elementary education/special education, middle school education, physical education, or secondary education who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certificate. This is a probationary certificate that is granted for three years. Additional certification is granted by the Missouri Department of Elementary and Secondary Education. Students with degrees from MSSC or another institution who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All programs are designed to exceed minimal requirements for certification. Programs of study and courses required may be obtained through the Assistant Certification Officer in the Office of the Dean.

Exceptions to the Core Requirements: Physical Education Requirements

All teacher education students must meet the Core Curriculum requirements with the exception of elementary education, early childhood education, reading education, special education, or TESOL education students. These students are not required to take Kine 101, P. E. Activities, and Kine 103, Lifetime Wellness. In place of these two courses, these teacher education students are required to take Kine 370, School Health Education, and Kine 311, Physical Education for the Elementary School.

Bachelor of Science in Education (B.S.E.) - Elementary Education

Area of Concentration

Students who elect elementary education *(grades 1 through 6)* as their teaching area must complete an area of concentration consisting of a minimum of 21 hours. This requirement may be met in one of two ways as follows:

Option 1: A collection of 21 hours of approved courses in an area of study including art, English, mathematics, music, reading, science, social studies, speech/theatre, or other approved area.

Option 2: An added endorsement in an area of study such as early childhood, special education, or TESOL. A course of study for these certifications is available in the teacher education department office.

Requirements for Elementary Education

Core Education Requirements 65-66

Students must earn a grade of "C" or better in all of the following courses, except the area of concentration.

Kine 370	School Health	3
Geog 211	Geography	3
Econ 180	American Economic Sys	3
Math 120	Math Elem Tch II	3
Eng 325	Children's Literature	3
Art 220	Art Education	2
Mus 332	Music for Elem Sch	2
Educ 302	Exceptional Child	2
Psy 100	General Psychology	3
Psy 300	Child Development	3
OR		
Psy 305	Development Psy	4
Psy 310	Educ Psychology	2
Kine 311	PE for Elem Sch	2
Educ 301	Computer Software in the Classroom	3

Students must be tentatively admitted to teacher education prior to taking the following courses *(see admission requirements):*

Educ 329	Ped Theory, Methods, & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

Pass Media Competencies

In order to take the remaining courses, the student must be fully admitted to the teacher education program:

Educ 311	Science in the Elementary School	3
Educ 312	Problems of Teaching Arith in Elem School	3
Educ 322	Teaching Social Studies Elementary Sch	3
Educ 340	Language Arts	2

Educ 342	Dev Reading Elem	3
Educ 343	Content Area Literacy: Middle School (WI)	3
Educ 420	Intro Counseling (Optional)	3
Educ 470	Diagnostic and Remedial Reading	3

Professional Semester Courses

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2

Select two from the following:

Educ 412	Middle School/ Junior High Philosophy, Organization, and Curriculum	2
Psy 412	Measurement and Evaluation	2
Educ 420	(see above)	

Other requirements: All courses must be completed prior to student teaching.

Educ 442	Student Teaching	8

Meet all exit requirements (see graduation requirements).

Area of Concentration 21

A student may work toward certification in reading education *(grades K-12)* by completing all of the course work for reading certification requirements except two years of teaching experience. The student who completes this program and completes two years of teaching experience may apply to the Department of Elementary and Secondary Education for the reading specialist certificate.

Bachelor of Science in Education - Middle School

Students who elect middle school *(grades 5-9)* as their major must complete two areas of concentration consisting of 22-32 hours in each area. The curriculum for these areas is a joint effort by the departments of teacher education and the teaching specialty. Students who desire to teach in a middle school may choose to become qualified in any two of the following four areas: Language Arts (English), Math, Science, Social Studies.

The core courses for the middle school program total 108-9 hours. The number of hours added to this core depends on the two areas chosen. The possible choices and hours are listed below.

SS/Math	=	23
SS/Sci	=	28
Sci/Math	=	32
LA/SS	=	22
LA/Sci	=	28
LA/Math	=	28

Total Hours for degree in Middle School:

SS/Math	=	132
SS/Sci	=	137
Sci/Math	=	141
LA/SS	=	130
LA/Sci	=	136
LA/Math	=	136

Bachelor of Science in Education-Secondary Education or K-12

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the teacher education department.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

1. Art K-12
2. Business Education 9-12
3. English 9-12
4. Mathematics 9-12
5. Music K-12 *(Vocal or Instrumental)*
6. Physical Education K-12, K-9, 9-12
7. Social Studies 9-12
8. Spanish K-12
9. Speech/Theatre 9-12
10. Unified Science 9-12 *(with endorsement in biology, chemistry, or physics)*

Plan A: *(Double Major)*
Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in art, music, social science, Spanish, or unified science. If Plan A is selected, a second teaching field is required.

Plan B: *(Single Teaching Field, Comprehensive Major)*
Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

The Teaching Specialty for Secondary Education 9-12

Students in secondary education must meet the same core requirements as all MSSC students. Depending on the teaching specialty, these students will differ in the order in which they take the Core Curriculum requirements. Each specialty area has a sequence of courses for the teaching specialty. Students should refer to the catalog under the teaching specialty.

Requirements for Secondary Education or K-12

Core Education Requirements		**39/42**
Psy 100	General Psychology	3
Psy 301	(9-12) Adolscent Psy	3
Psy 305	(K-12) Devel. Psy	4
Psy 310	Educational Psychology	2
Educ 301	Computers in Education	3
Educ 302	Exceptional Child	2
**Junior Block*	Educ 329	4
**Junior Block*	Educ 321	2
**Junior Block*	Educ 423	2
Educ 422	Content Area Literacy: Secondary	2
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412 or Educ 420, or Psy 412		2-3
(chose one elective in Education)		
Educ	Methods course appropriate to student's teaching area	2-3
Educ 462 *(9-12)* or Educ 464 *(K-12)*		
Student Teaching		8

Programs *(Examples:)*

1. Elementary Education - Option I with a 21 hour concentration

Suggested Order of Study

Bachelor of Science in Education
Elementary Education
(Elementary Education with a 21 hour concentration in social studies)

Freshman year
1st Semester

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I] (WI)	3
CORE	[Math 111 Math Elem I]	3
CORE	[Econ 180 Amer Econ]	3
Psy 120	College Orientation	1
		14

2nd Semester

CORE	[Math 120 Math Elem II]	3
CORE	[Eng 102 (Eng 101)] (WI)	3
CORE	[Comm 100 Oral Comm]*	3
CORE	[Hist 110 U.S.1492-1877]	3
CORE	[Mus 110 Music Appr	
OR		
CORE	[Art 110 Art Appr (2A)]	3
		15

(To meet state certification requirements the student in all elementary supported fields must take either Music or Art Appreciation as a first choice and then can select from Area 2, Humanities and Fine Arts part B & C, page 35.

Sophomore Year
1st Semester

Educ 200	Intro to Tchr Educ II	1
CORE	[Bio 101 General Bio]	4
CORE	[Hist 120 US 1877-present]	3
CORE	Literature (2B)	3
CORE	[PSc 120 Gov't;US/Sta/Loc]	3
Psy 300	Child Development	3
		17

2nd Semester
Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

CORE	Fine Art from Area 2C	3
Kine311	PE in Elem School ***	2
CORE	[Phys 101]	5
Mus 332	Music for Elem School	2
Educ 301	Comp Software Clsrm**	3
Elective		2
		17

Junior Year
1st Semester
Pass Media Competencies in Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before any course from the junior block forward with an AEduc@ prefix can be taken.

Educ 329	Ped Theory Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 342	Dev Reading Elementary	3
Kine 370	School Health Educ (WI)***	3
Educ 302	The Exceptional Child	2
		16

2nd Semester
Must be fully admitted to the Teacher Education Program. (Media competencies must be met or the student will be denied full admission and denied continuation in the program.)

Area of Concentration		3
Geog 211	Regions and Nations	3
Educ 343	Cont Area Lit Mid Sch (WI)	3
Educ 340	Language Arts	2
Educ 312	Prob of Tchng Arith	3
Psy 310	Educational Psy	2
		16

Senior Year
1st Semester

Eng 325	Children's Lit (WI)	3
Educ 470	Diag & Remdl Rdg *(may be taken w/Educ 343)*	3
Art 220	Art Education	2
Educ 311	Tchng Sci Elem	3
Educ 322	Tchng Soc Studies	3
Educ 420	Intro to Counsel (WI)@@	3
		17

@@Select Two
Educ 412 Mid Sch-Jr Hi-Phil-Org-Curr (2)
Educ 420 Intro to Counsel+ (3)
Psy 412 Measurement & Eval (2)
+Must be before student teaching

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issues	2
Electives(s) from list above @@		2-4
Educ 442	Student Teaching	8
		14-16

Total Elementary Education /with Social Studies Concentration 128-129

(Prerequisites)
[Department Recommendations]
*Student must have speech evaluation filed in the Dean's office.
**This is a certification requirement and must be taken by all teacher education students.
***Meets the core requirements in Physical Education.

Bachelor of Science in Education
Elementary Education/Reading Education

Students who wish to certify in reading education should follow the order of study below. When students complete the sequence of courses satisfactorily, and upon completion of two years of teaching experience, they may certify as reading specialists in the State of Missouri. Advisers should pay particular attention to the sequence of courses. For example, a student must take Educ 342 before taking Educ 343. Educ 343 may be taken with Educ 470.

Freshman year
1st Semester

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I] (WI)	3
CORE	[Math 111 Math Elem I]	3
CORE	[Econ 180 Amer Econ]	3
Psy 120	College Orientation	1
		14

2nd Semester

CORE	[Math 120 Math Elem II]	3
CORE	[Eng 102 (Eng101)] (WI)	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U. S. 1492-1877]	3
CORE	[PSc 120 Gov't;US/Sta/Loc]	3
CORE	[Music 110 Music Apprec]	
OR		
CORE	[Art 110 Art Apprec]	3
		18

(To meet state certification requirements the student in all elementary supported fields must take either Music or Art appreciation and then can select from Area 2, Humanities and Fine Arts part B & C, page 35.)

Sophomore Year
1st Semester

Educ 200	Intro to Tch Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 US 1877-present]	3
Geog 211	Regions and Nations	3
CORE	Literature (2B)	3
CORE	Humanities/Fine Arts (2C)	3
		17

2nd Semester
Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Art 220	Art Education	2
Psy 305	Developmental Psychology	4
Kine 311	PE in Elem School ***	2
CORE	[Phys 101]	5
Educ 301	Comp Software Classroom**	3
		16

Junior Year
1st Semester
Pass Media Competencies in Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 301)

Educ 329	Ped Theory Methds Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Mgt	2
Kine 370	School Hlt Educ ***(WI)	3
Educ 302	Exceptional Child	2
Educ 342	Dev Reading: Elem	3
		16

2nd Semester
Must be fully admitted to the Teacher Education Program.

Educ 474	Educ & Psy Testing*	3
Mus 332	Mus Elem School	2
Educ 343	Con. Area Literacy M.S. (WI)	3
Educ 470	Diag & Rmdl Rdg	3
Educ 340	Language Arts	2
Educ 312	Probs of Tchng Arith	3
		16

Junior Year - SUMMER

Educ 430	Language Development	3
		3

Senior Year
1st Semester

Educ 322	Tchng Soc. Studies	3
Eng 325	Children's Literature (WI)	3
Educ 311	Teaching Science Elem	3
Educ 420	Intro to Counseling+	3
Educ 422	Con Area Lit: Secondary (WI)	2
Psy 310	Educational Psychology	2
		16

2nd Semester

Educ 402	Found of Educ (WI)	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching	8
		12

Elementary/Reading **128**

Students must complete all of the above courses as well as the following in order to be certified in Remedial Reading.
1. Educ 350 Corrective Reading 2
2. Educ 471 Prac in Diag Rdg Diff 3
3. Educ 472 Prac in Rem of Reading 3
4. Applicant must complete two years of teaching experience.
(Prerequisites)
[Department Recommendations]
*Course specific to the area of Reading emphasis.
***Meets the core requirements in Physical Education.
+Must be taken prior to student teaching semester.

2. Elementary Education/ Early Childhood Education - Option 2

Suggested Order of Study

Bachelor of Science in Education Elementary Education/Early Childhood Education

Freshman year
1st Semester

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I] (WI)	3
CORE	[Math 111 Math Elem I]	3
CORE	[Econ 180 Amer Econ]	3
Psy 120	College Orientation	1
		14

2nd Semester

CORE	[Math 120 Math Elem II]	3
CORE	[Eng 102 (Eng 101)] (WI)	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S.1492-1877	3
CORE	[PSc 120 Gov't; US/Sta/Loc]	3
		15

Sophomore Year
1st Semester

Educ 200	Intro to Tchr Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 US 1877-present]	3
Geog 211	Regions and Nations	3
CORE	[Music 110 Music Apprec]	
OR		
CORE	[Art 110 Art Apprec]	3
CORE	Humanities/Fine Arts Elec	3
		17

(To meet state certification requirements the student in all elementary supported fields must take either Music or Art Appreciation and then can select from Area 2, Humanities and Fine Arts part B & C, page 35.)

2nd Semester
Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Art 220	Art Education	2
Psy 300	Child Development	3
Kine 311	PE in Elem Sch ***	2
CORE	[Phys 101]	5
Kine 340	Motor Learning*	2
CORE	Literature Elective	3
		17

Sophomore Year - SUMMER

Eng 325	Children's Literature (WI)	3
Educ 301	Computer Software	3
		6

Junior Year
1st Semester
Pass Media Competencies – Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 301 and Educ 302)

Educ 329	Ped The Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Kine 370	School Health Educ (WI)***	3
Educ 316	Found,Iss,Trnd ECE*	2
Mus 332	Music in Elem Sch	2
		15

2nd Semester
Must be fully admitted to the Teacher Education Program.

Educ 342	Dev Reading Elementary	3
Educ 340	Language Arts	2
Educ 312	Prob of Tchng Arith	3
Educ 311	Teaching Science Elem	3
Educ 317	Curriculum - ECE*	3
Educ 323	Util Fam Comm Res*	3
		17

Junior Year - SUMMER

Educ 408	Assess & Pract in ECE*	4
Educ 430	Language Development*	3
Educ 302	Exceptional Child	2
		9

Senior Year
1st Semester

Educ 343	Cont Area Lit: M.S. (WI)	3
Educ 470	Diag & Remdl Rdg	3
	(may be taken with Educ 343)	
Educ 318	Meth & Materials ECE*	3
Educ 319	Prac Meth & Mat*	2
Psy 310	Educational Psychology	2
Educ 322	Tchng Soc Studies	3
		16

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching	8
		12

Total Elementary/ECE Program **138**
(Prerequisites)
[Department Recommendations]
*Courses specific to the Early Childhood Area of Emphasis.
***Meets the core requirements in Physical Education.
Area of Emphasis - total semester hrs=23

3. Elementary Education/ Special Education - Option 2

Suggested Order of Study

Bachelor of Science in Education
Elementary Education/Special Education -

Students who wish to certify in special education must certify in mild/moderate cross categorical disabilities and one of the following endorsement options:

Learning Disabilities K-12,
Mental Handicaps K-12,
Behavior Disorders K-12.

Students who pursue these programs must carefully follow the orders of study for these categories.

Beginning with the first semester of the junior year, students may begin taking the required courses in special education. The first course in the sequence is Educ 324, Introduction to Special Education, *(3 credit hours).* This course introduces the endorsement options in special education offered at MSSC. This course must be taken before any of the methods courses in special education can be taken. After completing the methods course, the student will complete the practicum in the same category as the methods course. Other courses that are required for special education may be taken according to the Suggested Order of Study below.

Student teaching for special education students consists of a full ten week experience in the category chosen by the student. Students who choose to student teach in cross-categorical disabilities must meet all course requirements for that area, qualify for admission to student teaching, and then complete ten weeks student teaching in a cross-categorical classroom.

Freshman year
1st Semester

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I] (WI)	3
CORE	[Math 111 Math Elem I]	3
CORE	[Econ 180 Amer Econ]	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		17

2nd Semester

CORE	[Math 120 Math Elem II]	3
CORE	[Eng 102 (Eng 101)] (WI)	3
CORE	[Hist 110 US1492-1877]	3
CORE	[PSC 120 Gov't; US/Sta/Loc]	3
Educ 301	Computer Software	3
CORE	[Music 110 Music Apprec]	
OR		
CORE	[Art 110 Art Apprec]	3
		18

(To meet state certification requirements the student in all elementary supported fields must take either Music or Art appreciation and then can select from Area 2, Humanities and Fine Arts part B & C, page 35.)

Sophomore
1st Semester

Educ 200	Intro to Tchr Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 US 1877-present]	3
Geog 211	Regions and Nations	3
CORE	Fine Art (2B)	3
Psy 305	Developmental Psychology	4
		18

2nd Semester
Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Art 220	Art Education	2
Kine 311	PE in Elem School ***	2
CORE	[Phys 101]	5
CORE	Humanities/Fine Arts (2C)	3
Psy 310	Educational Psychology	2
Mus 332	Music for Elem School	2
		16

Summer Semester - Sophomre

Eng 325	Children's Literature (WI)	3
Educ 302	Exceptional Child	2
		5

Junior Year
1st Semester
Pass Media Competencies in Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before courses with an "Educ." prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 301 and Educ 302)

Educ 329	Ped Theory Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Kine 370	School Health Educ.***	3
Educ 324	Intro Spec Educ	3
Educ 342	Dev Reading: Elem	3
		17

2nd Semester
Must be fully admitted to the Teacher Education Program

Educ 311	Teaching Science Elem	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arith	3
Educ 474	Ed-Psy Testing	3
Educ 407	Diag & Prscrptv Tch*	3
Educ 410	Methods/Cross-Categorical	3
		17

Summer Semester - Junior

Educ 348	Transition Services	2
Educ 430	Lang. Development	3
Educ 403 or 404 or 405	Methods in MR,BD, or LD	3
		8

Senior Year
1st Semester

Educ 343	Cont Area Literacy: M.S. (WI)	3
Educ 470	Diag & Remdl Reading *(may be taken with Educ 343)*	3
Educ 322	Tchng Soc. Studies	3
Educ 420	Intro to Counseling+	3
Educ 446	Pract Cross-Categorical	3
Educ 446	Pract in 2nd selected area	3
		18

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching	8
		12

Total Elem/Special Education **146**

(Prerequisites)
[Department Recommendations]
*Courses specific to Special Education certification endorsement.
***Meets the core requirements in Physical Education.

4. Elementary Education/TESOL - Option 2

Suggested Order of Study

Bachelor of Science in Education
Elementary Education/TESOL

Students who wish to certify in TESOL (Teachers of English to Students of Other Languages) can add the course work to elementary, middle school, or secondary education majors. Please see your adviser for details. The following Suggested Order of Study is for the elementary education program only.

Suggested four-year plan for elementary education majors with TESOL as an area of concentration.

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I] (WI)	3
Psy 100	General Psychology	3
CORE	[Econ 180 Amer Econ]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 (Eng 101)] (WI)	3
Art 110/Mus 110		3
CORE	[Hist 120 US1877-Present]	3
CORE	[Math 111 Math Elem Tchr I]	3
CORE	[PSc 120 Govt;US,Sta,Loc]	3
Educ 100	Intro to Tchr Educ I	1
		16

Summer Semester

CORE	[Bio 101 General Biology]	4
		4

Sophomore Year

1st Semester

CORE	[Math 120 Math Elem II]	3
Educ 301	Computer Software	3
Geog 211	Regions & Nations	3
Psy 305	Developmental Psychology	4
Educ 200	Intro to Tch Educ II	1
CORE	Fine Arts Elective (2B - Lit. 261,262,271,272,281,282)	3
		17

2nd Semester

Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

CORE	Fine Arts Elective (2C)	3
CORE	[Phys 101]	5
Psy 310	Educational Psychology	2
Kine 311	P.E. for Elem School	2
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
		16

Junior Year

1st Semester

Pass Media Competencies in Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 301 and Educ 302)

Educ 329	Ped Theory Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 342	Dev Reading Elementary	3
Kine 370	School Health	3
Eng 301	Modern Grammar	3
		17

2nd Semester

Must be fully admitted to the Teacher Education Program

Educ 311	Science Elem School	3
Educ 312	Prob of Tch Arthm	3
Educ 340	Language Arts	2
Educ 343	Cont Area Lit: M.S. (WI)	3
Educ 380	Theories/Eng 2nd Lang	3
Educ 480	Methods of TESOL	3
		17

Summer - Junior Year

Educ 381	Tchng Multicultural Soc	3
Educ 481	Mat Dev & Assess/TESOL	3
		6

Senior Year

1st Semester

Educ 322	Tchng Soc Stud Elem	3
Educ 422	Cont Area Lit: Sec. (WI)	2
Educ 470	Dgnstc & Rmdl Rdng	3
Educ 482	Practicum/TESOL	3
Eng 325	Children's Literature	3
Art 220	Art Education	2
		16

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching	8
		12

Total Elementary Education with TESOL 137

5. Middle School Education

Bachelor of Science in Education
Middle School Education

Suggested Order of Study

Students will need to check with their advisers for additional courses that must be taken in each of two chosen areas of concentration (Language Arts), (Social Science), (Science), or (Math).

Freshman Year

1st Semester

Course		Hours
Educ 100	Intro to Tchr Educ I	1
CORE	[Eng 101 Comp I] (WI)	3
CORE	[Math 111 Math Elem I]	3
CORE	[Econ 180 Amer Econ]	3
Psy 120	College Orientation	1
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 101 PE Activity]	1
		15

2nd Semester

CORE	[Math 120 Math Elem II]	3
CORE	[Eng 102 (Eng 101)] (WI)	3
CORE	[Hist 110 U.S.1492-1877]	3
Psy 100	General Psychology	3
CORE	[Bio 101 Gen Biology]	4
		16

Sophomore Year

1st Semester

CORE	[Phys 101]	5
CORE	[Hist 120 U.S. 1877-present]	3
CORE	[Kine 103 Lifetime Wellness	2
Educ 301	Computer Software	3
Educ 200	Intro to Tchr Educ II	1
CORE	Fine Arts Elective (2B- Lit. 261,262,271,272,281,282)	3
		16

2nd Semester

Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

CORE	[PSC 120 Govt;US,Sta,Loc]	3
Psy 305	Developmental Psychology	4
CORE	Fine Arts Elective (2C)	3
CORE	(2A)	3
Concentration Area		3-6
		16-19

Junior Year

1st Semester

Pass Media Competencies in Jr. Blk. Student must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 301 and Educ 302)

Educ 329	Ped Theory Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 342	Dev Reading Elementary	3
Concentration Area		6-7
		17-18

2nd Semester

Must be fully admitted to the Teacher Education Program

Educ 343	Cont Area Lit: M.S. (WI)	3
Educ 302	Exceptional Child	2
Psy 310	Educational Psychology	2
International Studies		3
Concentration Area		4-8
		14-18

Senior Year

1st Semester

Educ 412	Middle School Curr	2
Psy 412	Measurement & Eval	2
Educ Elem Content Methods		5-6
Concentration Area		7-8
		17-18

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 413	Methods of Tchng M.S.	2
Educ 432	Critical Issues	2
Educ 452	Student Teaching	8
		14

Total Middle School 130-141

(Prerequisites)
[Department Recommendations]

6. Secondary Education

Suggested Order of Study

Bachelor of Science in Education Secondary Education /Teaching Specialization

Freshman Year
1st Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3

2nd Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Sophomore Year
1st Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 200	Intro to Tchr Educ II	1
Educ 302	Exceptional Child	2

Pass C-Base test for admission.
Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get faculty recommendation, write autobiography, and file admission papers for tentative admission.

2nd Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 301	Computer Software **	3
Psy 301	Adolescent Psychology	3

Junior Year
1st Semester
Pass media competencies in Jr. Blk.

Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

Follow departmental recommendations for teaching specialty courses. If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.

2nd Semester
Follow departmental recommendations for teaching specialty courses.

Psy 310	Educational Psychology	3

Senior Year
1st Semester
Follow departmental recommendations for teaching specialty courses. Apply for student teaching during the second week of the semester.

Educ 422	Cont Area Lit: Sec. (WI)	2
Psy 412	Tests & Measurements	
Or		
Educ 412	Mid School Curr	
Or		
Educ 420	Intro to Counseling	2-3

2nd Semester

Educ 402	Foundations of Educ (WI)	2
Educ 432	Critical Issues	2
Educ	Tchng Specialty Methods Course	2-3
Educ 462	Student Teaching Sec	8
		14-15

(Prerequisites)
[Department Recommendations]
**This is a certification requirement and must be taken by all teacher education students.

7. K-12 Education

Suggested Order of Study

Bachelor of Science in Education K-12 Program

Freshman Year
1st Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Course		Hours
Educ 100	Intro to Tchr Educ I	1
Psy 100	General Psychology	3

2nd Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Sophomore Year
1st Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 200	Intro to Tchr Educ II	1
Educ 302	Exceptional Child	2

Pass C-Base test for admission.
Verify that ACT score is 20+. Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. Get faculty recommendation, write autobiography, and file admission papers for tentative admission.

2nd Semester
Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 301	Computer Software **	3
Psy 305	Developmental Psychology	4

Junior Year
1st Semester
Pass media competencies in Jr. Blk.

Educ 321	Microteaching	2
Educ 329	Ped Theo Meth & Prac	4
Educ 423	Classroom Management	2

Follow departmental recommendations for teaching specialty courses. If recommended by Junior Block instructors, and by the teacher education faculty, receive full admission to teacher education.

2nd Semester
Follow departmental recommendations for teaching specialty courses.

Psy 310	Educational Psychology	3

Senior Year
1st Semester
Follow departmental recommendations for teaching specialty courses. Apply for student teaching during the second week of the semester.

Educ 422	Cont Area Lit: Sec (WI)	2
Psy 412	Tests & Measurements	
OR		
Educ 412	Mid Sch Org-Phl-Cur	
OR		
Educ 420	Intro to Counseling	2-3

2nd Semester

Educ 402	Foundations of Educ WI	2
Educ 432	Critical Issues	2
Educ	Tchng Specialty Methods Course	2-3
Educ 464	Student Teaching K-12	8
		14-15

(Prerequisites)
[Department Recommendations]
**This is a certification requirement and must be taken by all teacher education students.

For additional information contact:
Teacher Education Department
Office: Taylor Hall 237
Phone: 625-9309
FAX: 625-9771

Course Descriptions

Educ 010 (F,S) 2 hrs. cr.
Academic Skills for College Success
Designed to improve and enhance reading skills. Vocabulary, comprehension, and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

Educ 100 (F,S) 1 hr. cr.
Introduction to Teacher Education I
An orientation to teacher education required for freshmen who select elementary or secondary education as their major field. Intended to help clarify decisions about education as a major and career choice. Concepts covered include: teaching as a career, teacher preparation, employment prospects, educational funding, and technology in education.

Educ 105 (F,S) 1 hr. cr.
Speed Reading
Designed specifically to increase reading speed. Not recommended for students with comprehension problems.

Educ 200 (F,S) 1 hr. cr.
Introducation to Teacher Education II
An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour, field-based component is included.

Educ 301 (F,S,Demand) 3 hrs. cr.
Use of Computer Software in the Classroom
Study designed to provide the prospective teacher with a basic understanding of microcomputer hardware, software, and related technologies with special emphasis upon use of this technology in the accomplishment of teacher-oriented tasks. **Required of all education majors.**

Educ 302 (F,S, Demand) 2 hrs. cr.
The Exceptional Child
A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 100

Educ 311 (F,S, Demand) 3 hrs. cr.
Science in the Elementary School
Designed to help students (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery, and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Prerequisites: Courses in biological and physical sciences and completion of Junior Block.

Educ 312 (F,S, Demand) 3 hrs. cr.
Problems of Teaching Arithmetic in Elementary Schools
(See Math 312)
Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: Math 111 and completion of Junior Block.

Educ 316 (F,S) 2 hrs. cr.
Foundations, Issues, and Trends in Early Childhood Education
A survey course designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological, and social foundations of early childhood education. In addition, designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. **Must be taken concurrently with the junior block courses.**

Educ 317 (F,S) 3 hrs. cr.
Curriculum in Early Childhood Education
Curriculm development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.

Educ 318 (F,S) 3 hrs. cr.
Early Childhood Methods and Materials
Background in teaching strategies and materials for the young child. Fundamentals of designing developmentally appropriate small group, large group, and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317 or instructor permission. Must be taken concurrently with Educ 319.

Educ 319 (F,S) 2 hrs. cr.
Practicum I in Early Childhood Education
Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group, and individual learning experiences, develop appropriate materials for children=s use, and practice appropriate teaching strategies for young children. Prerequisites: Educ 316 and Educ 317 or instructor permission. Must be taken concurrently with Educ 318.

Educ 321 (F,S) 2 hrs. cr.
Microteaching
A required part of Education 329. Short teaching episodes are prepared, taught and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills as enumerated in the outline. Must be taken concurrently with Educ 329 and Educ 423.

Educ 322 (F,S, Demand) 3 hrs. cr.
Teaching Social Studies in Elementary School
An introduction to the instructional materials and methods of teaching social studies in the elementary school.

Educ 323 (S) 3 hrs. cr.
Utilizing Family and Community Resources for the Young Child
Acquaints the prospective teacher of young children with the needs and concerns of families rearing young children, methods of involving parents in the education of their children, and knowledge of community resources for families with young children.

Educ 324 (F,S) 3 hrs. cr.
Introduction to Special Education
Introduction to the five areas of mild/moderate disabilities: learning disabled, mentally handicapped, behavior disordered, physically disabled, and other health impaired. Provides the basis of understanding necessary to learn and apply the methodologies needed for each of these areas of exceptionalities. **(Must be taken concurrently with the junior block courses.)** Prerequisites: Educ 302, Psy 100 and Psy 305.

Educ 329 (F,S) 4 hrs. cr.
Pedagogical Theory, Methods and Practices
Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles, and assessment techniques. Microteaching provides an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary, middle, and secondary school classroom provides an opportunity to refine theory into practical applications. Must be taken concurrently with Educ 321 and Educ 423.

Educ 332 (S) 2 hrs. cr.
Teaching English and Language Arts in Secondary School
Provides an introduction to the instructional materials and methods of teaching English and language arts in the Secondary School. Part of the Professional Semester. Prerequisite: Junior Block

Educ 333 (S) 3 hrs. cr.
Teaching Science in Secondary School
An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester. Prerequisite: Junior Block

Educ 334 (S) 2 hrs. cr.
Teaching Social Science in Secondary School
An introduction to the instructional planning, materials, and methods of teaching social science. Part of the professional Semester. Prerequisite: Junior Block

Educ 335 (S) 2 hrs. cr.
Teaching Music in Secondary School
An introduction to the instructional planning, materials, and methods of teaching music. Part of the Professional Semester. Prerequisite: Junior Block

Educ 336 (S) 2 hrs. cr.
Teaching Business in Secondary School
An introduction to the instructional planning, materials, and methods of teaching business. Part of the Professional Semester. Prerequisite: Junior Block

Educ 337 (F,S) 2 hrs. cr.
Teaching Art in Secondary School
An introduction to the instructional planning, materials, and methods of teaching art. Part of the Professional Semester. Prerequisite: Junior Block

Educ 338 (F,S) 2 hrs. cr.
Teaching Physical Education in Secondary School
An introduction to the instructional planning, materials, and methods of teaching physical education. Part of the Professional Semester. Prerequisite: Junior Block

Educ 339 (S) 3 hrs. cr.
Teaching Mathematics in Secondary School
An introduction to the instructional planning, materials, and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics. Prerequisite: Junior Block

Educ 340 (F,S, Demand) 2 hrs. cr.
Language Arts
A foundations course for the development of understanding the attitudes necessary to teach written and oral communication at the elementary and middle school level.

Educ 342 (F,S, Demand) 3 hrs. cr.
Developmental Reading: Elementary
Explore, study, and apply a variety of reading strategies that provide understanding of effective, current text-based and experience-based teaching practices; review and compile information from journals/literature which includes research, ideas, trends, methods, and experiences relevant to developmental reading; evaluate various reading approaches and programs; construct reading enrichment materials; and develop an attitude that will positively affect the self-concept of children with diverse learning styles, abilities, backgrounds, and attitudes as they learn to read. **(Should be taken with junior block.)**

Educ 343 (F,S) 3 hrs. cr.
Content Area Literacy: Middle School
(Writing Intensive)
Expand and extend the knowledge base acquired from Introduction to Developmental Reading; explore, study, apply, and assimilate new learning about effective reading/study-skill strategies appropriate to the development and needs of the middle-school population; design and construct enrichment materials to enhance reading in the content areas; develop knowledge on assessing middle-school students' needs, plan instruction based on those needs, and select appropriate and effective reading/study-skills instruction strategies; and focus on the importance of recreational reading as a lifetime habit. Prerequisite: Educ 342 (Can be taken concurrently with Educ 470 .)

Educ 344 (S) 2 hrs. cr.
Teaching Speech and Theatre in Secondary School
Techniques, methods, and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education. Prerequisite: Junior Block

Educ 345 (S) 2 hrs. cr.
Teaching Foreign Language in PK-12
An introduction to the instructional materials and the methodology used in the teaching of foreign languages in PK-12. Prerequisite: Junior Block

Educ 348 (F,S) 2 hrs. cr.
Transition Services
A coordinated set of activities for a student designed within an outcome-oriented process that promotes movement from school to post-school activities, including post-secondary education, vocational training, integrated employment, continuing and adult education, adult services, independent living, or community participation. Study of coordinated activities, including instruction, community experiences, employment, and other post school adult living objectives. Prerequisite: Educ 324.

Educ 350 (Demand) 2 hrs. cr.
Corrective Reading Instruction for Classroom Teachers
Explore historical perspectives of corrective reading practices and reading issues and trends. Learn how to make informed decisions about appropriate current reading instruction and practices. Prerequisites: Educ 342 and Educ 343.

Educ 380 (S) 3 hrs. cr.
Theories of Teaching English as a Second Language
Basic theories of how non-English speaking people acquire English. Includes working with non-English speaking students, description of personal theory, and methods of teaching. (May be taken after or concurrently with Junior Block.)

Educ 381 (Summer) 3 hrs. cr.
Teaching in a Multicultural Society
The foundations of multicultural education along with approaches to multicultural education and teaching strategies applicable to all ages, grades, and subjects.

Educ 402 (F,S, Demand) 2 hrs. cr.
Foundations of Education *(Writing Intensive)*
Historical, philosophical, and sociological aspects of education. Emphasis upon the development of American education from the Colonial period and acquision of knowledge of educational belief systems.

Educ 403 (Demand) 3 hrs. cr.
Methods of Teaching the Mentally Handicapped
Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development, and teaching strategies. Prerequisite: Educ 302 and Educ 324.

Educ 404 (S) 3 hrs. cr.
Methods of Teaching Children with Learning Disabilities
Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies, and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.

Educ 405 (Demand) 3 hrs. cr.
Methods of Teaching Children with Behavioral Disorders
Establishes a teaching rationale utilizing an individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.

Educ 407 (S) 3 hrs. cr.
Diagnostic and Prescriptive Teaching
Four major assessment practices used to design and evaluate individual education programs and to make daily instructional decisions for students with or without disabilities. Students will conduct each of the following kinds of assessment: formal standardized tests, behavioral assessment, curriculum-based assessment, and precision teaching. Prerequisites: Educ 302 and Educ 324.

Educ 408 (F - Demand) 4 hrs. cr.
Assessment & Practicum in Early Childhood
An in-depth study of systematic observation, testing tools, and screening instruments. With supervised administration, scoring and interpretation of these assessments in early childhood education. In addition to 2 hrs. of lecture per week, students will be assigned to an early childhood setting for 4 clock-hours a week to utilize systematic informal observational techniques which will culminate in a written case study report. Prerequisite: Educ 316.

Educ 410 (F,S) 3 hrs. cr.
Teaching in the Mild/Moderate: Cross-Categorical Classroom: K-12
A methods course designed to give students numerous examples of curricular and instructional methodologies in the teaching of elementary and secondary mildly handicapped children in a cross-categorical classroom. Methodologies for students with learning disabilities, mental handicaps, behavior disorders, physical disabilities, and other health impairments are discussed.

Educ 412 (F,S,Demand) 2 hrs. cr.
Middle School and Junior High Philosophy, Organization and Curriculum
Effective teaching and learning strategies for the Middle School and Junior High students, including comprehension of the developmental and academic needs of students. Designed for Education majors seeking middle school certification (Grades 5-9) and for others interested in curriculum and instruction.

Educ 413 (F,S) 2 hrs. cr.
Methods of Teaching Students in the Middle Grades
Exploration of middle school developmentally appropriate instructional planning, materials, evaluation, and reporting of pupil progress. Student communication and personal development are stressed through exploratory programs and the balance of teaching and learning styles. Inquiry, problem solving, and discovery methods used to show the importance of content knowledge and its application to decision making. Emphasis on the importance of interdisciplinary units of instruction to acculturate students. Prerequisite: Educ 412 or may be taken concurrently.

Educ 420 (F,S) 3 hrs. cr.
Introduction to Counseling *(Writing Intensive)*
Survey course exploring the role and function of counseling, including philosophies, theories, techniques, legal and ethical issues, assessment, and research. Designed as an overview for the classroom teacher, the reading specialist, and the special educator for use with students and parents.

Educ 422 (F,S, Demand) 2 hrs. cr.
Content Area Literacy: Secondary
(Writing Intensive)
Secondary education majors explore, study, and apply a variety of research-based and classroom-tested teaching/learning strategies designed to enhance and extend teaching in their content areas; develop and design materials that integrate reading into their content areas; identify and modify critical thinking strategies relevant to their content areas; compile and understand effective reading/study skills components appropriate for secondary students; compose their philosophy of reading; and review assessment techniques relevant to reading in the secondary school. Can be taken concurrently with Junior Block

Educ 423 (F, S) 2 hrs. cr.
Classroom Management
Classroom Management introduces concepts, skills, and models for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when problems occur, and what to do to decrease the possibility of problems recurring. Must be taken concurrently with Educ 329 and Educ 321.

Educ 430 (F, S, Demand) 3 hrs. cr.
Language Development of Exceptional Children
Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition, and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Educ 432 (F, S, Demand) 2 hrs. cr.
Critical Issues in Education
Exploration of current problems with special regard to legal and professional roles of school personnel, their relationships to federal and state governments and local school districts; certification, salary schedules, retirement, and other benefits, professional organizations for teachers, and relationship with administration, pupils, parents, and the community. Part of Professional Semester.

Educ 442 (F, S) 8 hrs. cr.
Student Teaching-Elementary
Supervised teaching on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 444 (F, S) 8 hrs. cr.
Student Teaching-Special Education
Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (10 weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block The student will be required to divide the 10 week experience into two segments — elementary and secondary. Assignment to the sites is determined by the special education practicum assignment. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 446 (F, S, Demand) 3 hrs. cr.
Practicum in Special Education
Clinical experience in special education settings with students who have mild/moderate disabilities. This experience will occur in one of the following classroom settings: cross-categorical, learning disabled, mentally handicapped, or behavior disordered. A three credit practicum plus student teaching experience will be needed in each area of certification. Includes both time in special education classes and on-campus seminar sessions. Prerequisites: Educ 324 and 3 credit hours of special education methods.

Educ 452 (F, S) 8 hrs. cr.
Student Teaching-Middle School
Supervised teaching on the middle school level in an assigned off-campus school site. The middle school teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 462 (F, S) 8 hrs. cr.
Student Teaching-Secondary
Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placements are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see requirements for Admission to Student Teaching.

Educ 464 (F, S) 8 hrs. cr.
Student Teaching - (K-12)
Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The PK-12 teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks at the secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 470 (F, S, Demand) 3 hrs. cr.
Diagnostic and Remedial Reading
Prepares the beginning remedial reading teacher and the regular classroom teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials, and management being stressed. Prerequisites: Educ 342, Educ 343, or may be taken concurrently with Educ 343.

Educ 471 (Summer) 3 hrs. cr.
Practicum in Diagnosis of Reading Difficulties
Practice of administering, interpreting, and reporting diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, and Educ 474.

Educ 472 (Summer) 3 hrs cr.
Practicum in Remediation of Reading Difficulties
Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471, and Educ 474.

Educ 474 (F, Summer) 3 hrs. cr.
Educational-Psychological Testing in Special Education
Comprehensive study of the various psycho-educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence, and psychomotor. Emphasis on translating assessment data to remedial programs. Prerequisites: Educ 302 and Psy 310.

Educ 480 (S) 3 hrs. cr.
Methods and Techniques for TESOL
Introduces techniques for teaching ESOL. Includes work with ESOL students, class observations, and hands-on experience with a variety of materials. (May be taken after or concurrently with Junior Block.)

Educ 481 (Summer) 3 hrs. cr.
Material Development and Assessment for TESOL
Analysis and preparation of materials for teaching ESOL and the basics of test development for ESOL. Prerequisite: Educ 480

Edue 482 (F) 3 hrs. cr.
Practicum for Teaching English to Speakers of Other Languages
Supervised practical classroom experience in teaching ESOL. Prerequisites: Educ 480 and Educ 481.

Educ 498 (Demand) 1-3 hrs. cr.
Seminar in Problems of Education
A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisites: Advanced standing and consent of department head.

Educ 499 (F, S) 1-3 hrs. cr.
Independent Study
Structured by the adviser with approval of department head. Prerequisites: Advanced standing in the major field and approval of adviser and department head.

School of Technology

Aviation
Computer Aided Drafting & Design Engineering Technology
Computer Assisted Manufacturing Technology
Computer Information Science
Criminal Justice
Dental Hygiene
Law Enforcement
Manufacturing Information Management Systems
Medical Technology
Nursing
Paramedic
Pre-Engineering
Preprofessional
Prepharmacy
Radiologic Technology
Respiratory Therapy

School of Technology

School Dean

Jack G. Spurlin
Justice Center

School Assistant to Dean
Tia M. Strait

Degrees and Majors

Bachelor of Science

- Computer Information Science
  - *Information Systems
  - *Computer Science
  - *Computational Mathematics
  - *Informatics
  - *Computer Technology
- Criminal Justice
- Manufacturing Information Management Systems (in conjunction with the School of Business Administration)
  - *Manufacturing
  - *Mechanical Design
- Medical Technology
- Nursing

Associate of Science

- Computer Aided Drafting and Design Engineering Technology
  - *Computer Graphics Design Emphasis
- Computer Assisted Manufacturing Technology
- Computer Information Science
  - *Network System Administration
  - *Information Systems
  - *Computer Science
- Dental Hygiene
- Law Enforcement
- Pre-engineering
- Radiologic Technology
- Respiratory Therapy

Associate of Arts (Preprofessional)

- Paramedic
- Prepharmacy

Certificate (one year)

- Manufacturing Applications

Certificate (less than 30 hours)

- Emergency Medical Technician
- Emergency Medical Technician – Paramedic
- Network System Administration
- Missouri Peace Officer Training

Certificate of Competency

- Computer Aided Drafting and Design Operator
- CNC Operator
- Reverse Engineering Technician
- Quality Technician

Options and Emphases

- Advanced Level Respiratory Therapy (after completion Respiratory Therapy Associate of Science Degree)
- Aviation

Minors

- Computer Information Systems
- Computer Science
- Criminal Justice Administration
  - *Corrections and/or Juvenile
- Network Systems Administration

Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under, the leadership of professional educators who also have the advantage of actual work experience in business, industry, health care and government. Instruction is further enhanced by the utilization of qualified individuals from business and professionals in the community as guest lecturers and part-time instructors.

Courses offered by individual departments within the School of Technology are specifically career oriented toward a specialized field. The faculty in these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think are a required part of each departments curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the experience, skills or expertise that enable them to enter their employment field and meet requirements imposed by any certifying and licensing examination that may be required.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to a Bachelor of Science, Associate of Science, and Associate of Arts degrees and one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. Numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public services.

All departments work closely with advisory boards composed of professionals from area business, industry, government and health care. The advisory board assists the faculty of the various departments in maintaining relevancy of curriculum content and identifying special needs that can be addressed through continuing education programs.

Goals

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;
2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;

5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions that serve a variety of area needs;
7. to offer quality programs and in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

Aviation

Justice Center, 625-9328

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:
Dr. Jack Spurlin
Office: Justice Center 126-B
Phone: 625-9328
E-Mail: spurlin-j@mail.mssc.edu

Course Descriptions

Av 200 5 hrs. cr.
Basic Pilot Training
An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

Design Manufacturing Information Technologies

Ummel Technology Building 115, 625-9305

Faculty Duggal-Head, Bartholet, Eze, Schultz

The department offers programs, which prepare students for manufacturing and design related floor level industrial positions. The programs offered are:

Associate of Science in Computer Aided Drafting and Design
- Engineering Technology
- Computer Graphics Design Emphasis

Associate of Science in Computer Assisted Manufacturing Technology
Bachelor of Science in Manufacturing Information Management Systems
- Manufacturing
- Mechanical Design

One Year Certificate in Manufacturing Applications
Certificates of Competency
- CADD Operator
- CNC Operator
- Reverse Engineering Technician
- Quality Technician

Computer Aided Drafting & Design Engineering Technology (CADD)

Ummel Technology Building 115, 625-9305

Faculty Duggal-Head, Bartholet

Computer Aided Drafting and Design Engineering Technology curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as drafters/designers in the fields of manufacturing, civil, architecture, or construction.

The requirements for the associate of science degree in CADD provide a broad base of analytical, technical and Core Curriculum courses. Computer Aided Drafting and Design hardware and software are used to enhance traditional instruction methods in all courses. Built into the curriculum is an emphasis on both on the study and application of engineering design technology. The documents and drawings produced by the CADD graduate would be based upon sketches, specifications, and calculations made by scientists, engineers, architects, and designers. Material specification is an essential part of the CADD program of study.

The department also functions as an internationally recognized authorized training center for AUTODESK software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Baccalaureate Options

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in the following areas :
- Manufacturing Information Management Systems (MIMS)
- Computer Information Science
- Management Technology

Associate of Science Degree
Major Code 5303
Computer Aided Drafting and Design Engineering Technology Major

		Semester Hours
Core Requirements (p. 33)		**25**
CADD Requirements		**50**
CADD 110	Engineering Graphics I	3
CADD 115	Intro to 3D Computer Aided Drafting	3
CADD 120	Descriptive Geometry	3
CADD 130	Engineering Graphics II	3
CADD 204	Industrial Statics and Strength of Material	3
CADD 210	Technical Illustration**	3

CADD 220	Architectural Drafting	
CADD 230	Survey and Mapping	
OR		
MIMS 310	Computer Production Planning Control	3
CADD 260	Engineering Graphics III	3
CAMT 100	Intro to Machine Tool Processes	3
CAMT 150	Materials & Processes	3
Phys	Elem. Phys 151	5
Phys	Elem. Phys 152	4
CORE	Math 140 Algebra/Trig	5
MATH 302	Applied Calculus	3

**Offered only in the summer.

Suggested Order of Study

Associate of Science Degree
Major Code 5303
Computer Aided Drafting and Design Engineering Technology Major

Freshman Year
1st Semester

Course		Hours
CADD 110	Engineering Graphics I	3
CAMT 100	Intro Mach Tool Processes	3
CAMT 150	Materials & Processes	3
CORE	[Math 30 or higher]	3
CORE	[Psy 120 College Orient]	1
CORE	[Humanities/Fine Arts]	3
		16

2nd Semester

CADD 115	Intro to 3D Computer Aided Drafting	3
MATH 140	Trigonometry	5
PHYSICS	Elem. Phys 151	5
CORE	[Eng 101 Comp I]	3
CORE	[Oral Comm]	3
		19

Summer

CADD 210	Technical Illustration	3
CORE	Kine 103 Lifetime Wellness	2
		5

Sophomore Year
1st Semester

CADD 120	Descriptive Geometry	3
CADD 130	Engineering Graphics II	3
CADD 204	Statics/Strength of Materials	3
MATH 302	Applied Calculus	3
CORE	[Hist 110/120 U.S. History]	3
CORE	[Econ 201 Economics-Macro]	3
		18

2nd Semester

CADD 220	Architectural Drafting	3
CADD 230	Survey and Mapping	3
CADD 260	Engineering Graphics III	3
PHYSICS	Elem. Phys 152	4
CORE	Kine 101-Physical Activity	1
* MO Const. Test or PSc 120		3
		14-17

[Department Recommendation]

For additional information contact:
Dr. J. S. Duggal
Office: Ummel Technology Building 115
Phone: 625-9305
E-Mail: duggal-j@mail.mssc.edu

Course Descriptions

CADD 110 (F, S) 3 hrs. cr.
Engineering Graphics I
Preparation of drawings by using state-of-the-art CADD. Spreadsheet, word-processing are incorporated along with geometric construction, lettering, orthographic projection, dimensioning, sections, pictorial drawing, graphs, and diagrams. One hr. lecture, 4 hrs. lab per week. Corequisite: Math 30.

CADD 115 (S) 3 hrs. cr.
Introduction to 3D Computer Aided Drafting
Computer aided drafting and the design of basic 3D wireframe and 3D models. Individuals who have a background in CADD should take the course for personal or professional improvement. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 & Math 30.

CADD 120 (F) 3 hrs. cr.
Descriptive Geometry
Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 115, Math 140 and Phys 151.

CADD 130 (F) 3 hrs. cr.
Engineering Graphics II
Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. The use of 3D and parametric design software enhance the industrial applications within this course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 115, Math 140, and Phys 151.

CADD 204 (F) 3 hrs. cr.
Industrial Statics and Strength of Material
Introductory survey of selected topics of statics and strength of materials, with emphasis on equilibrium friction, summation of forces and moments. The strength of materials will concentrate on simple stress and strain, basic beam relationships and torsional load carrying members. Two hrs. lecture, 3 hrs. lab per week. Prerequisites: CADD 115, Math 140, Phys 151.

CADD 210 (S) 3 hrs. cr.
Technical Illustration
Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn with a computer aided drafting system. Drawings will involve 2D and 3D illustration, lettering styles and computer generated rendering and animation. One hr. lecture, 4 hrs. lab per week. Prerequisite CADD 115, Math 140, Phys 151.

CADD 220 (S) 3 hrs. cr.
Architectural Drafting
Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110, Math 140 and Phys 151.

CADD 230 (S) 3 hrs. cr.
Survey & Mapping
Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 115, Math 302, Phys151.

CADD 260 (S) 3 hrs. cr.
Engineering Graphics III
Topics not covered in lower CADD courses, including Vector Graphics and CADD Applications pertaining to Descriptive Geometry. Geometric Dimensioning and Tolerancing and working drawings and CAM Design will be reemphasized. Engineering design and problem olving will be an essential aspect of this course. Special topics in CADD. Finite elements will be introduced. Drafting facility management concepts will also be covered. Three hours lecture per week, open labs as required. Prerequisites: CADD 120, 130, 204, Math 140, Math 302, Phys 151.

CADD 298 (Demand) 1-8 hrs. cr.
Special Topics Draft/Design
A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

CADD 330 (Demand) 3 hrs. cr.
Computer Machine Design
Principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling FEM and design analysis. Three hrs. lecture labs are arranged. Prerequisite: CADD 115, Math 140 or above.

CADD 490 (Demand) 1-8 hrs. cr.
Internship in Drafting and Design
A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CADD.

CADD 498 (Demand) 1-3 hrs. cr.
Seminar in Drafting & Design
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

CADD 499 (Demand) 1-3 hrs. cr.
Independent Study in Drafting & Design
Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of CADD with a 3.0 GPA and permission of instructor, department head and school dean.

Computer Aided Drafting & Design Computer Graphics Design (Option)

Ummel Technology Building 112, 625-9567
E-Mail: bartholet-f@mail.mssc.edu

Faculty Duggal-Head, Bartholet

This program is a blend between technical computer animation and art. The perspective graduate will develop skills in 2D and 3D animation coupled with color theory, material applications, and other art relevant principles. Individuals working in this area can become involved with filmmaking, video game development, accident reconstruction, and multimedia. Other fields include advertising, publishing and business.

Associate of Science Degree
Major Code 5304
Computer Aided Drafting and Design
Computer Graphics Design (Option)

		Semester Hours
Core Requirements (p. 33)		**21**
CADD Core		**15**
Art Core		**15**
CADD Requirements		
CADD 270	2D Computer Animation	3
CADD 271	Graphic Information Tech I	3
CADD 272	3D Computer Animation	3
CADD 274	Digital Animation App.	3
CADD 276	Computer Animation Studio	3
		15

Art Core

Art 101	Basic Design	3
Art 240	Typography	3
Art 310	Water Color	3
Art 325	Graphic Communications	3
Art 350	Graphic Communications II	3
		15

Suggested Order of Study

Associate of Science Degree
Major Code 5304
CADD-Computer Graphics Design Option

Freshman Year
1st Semester

Course		Hours
CADD 110	Engineering Graphics I	3
CADD 270	2D Computer Animation	3
ART 101	Basic Design	3
CORE	[English 101]	3
CORE	[Comm 100]	3
		15

2nd Semester

CADD 271	Graphic Information Tech I	3
ART 240	Typography	3
CORE	[Math 30 or higher]	3
CORE	[Hist 110/120]	3
CORE	[Psy 100, Soc 110, Econ 180]	3
		15

Sophomore Year
1st Semester

CADD 272	3D Computer Animation	3
ART 325	Graphic Communications I	3
ART 310	Water Color	3
CORE	[Biology/Physics]	4-5
CORE	[Humanities/Fine Art]	3
		16-17

2nd Semester

CADD 274	Digital Animation App.	3
CADD 276	Computer Animation Studio	3
ART 350	Graphic Communication II	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
* MO Const. Test or PSc 120		3
		12-15

[Department Recommendation]

For additional information contact:
Dr. J. S. Duggal
Office: Ummel Technology Building 115
Phone: 625-9305
E-Mail: duggal-j@mail.mssc.edu

Course Descriptions

CADD 270 (F) 3hrs. cr.
2D Computer Animation
Fundamentals of computer animation. Develop skills with technology in 2D Animation, sound editing, and general computer movie making. One hr. lecture, 4 hrs. of lab. Corequisites: CADD 110 or permission of the department.

CADD 271 (S) 3 hrs. cr.
Graphic Information Technology I
Basic applications of data transfer and manipulations within industrial environments. Topics could include basic Internet applications, basic Web page design, introduction to data formatting for the Internet, and other topics as the technology changes. One hr. lecture, 4 hrs. of lab.

CADD 272 (S) 3 hrs. cr.
3D Computer Animation
Fundamentals of computer animation on a personal computer focusing on industrial applications, such as product promotion and marketing, motion simulation of machine elements and mechanisms, and its use in presentation, training and instruction. This involves imparting movement and photo-realistic appearance to geometric shapes and models. One hr. lecture, 4 hrs. of lab. Prerequisites: CADD 270 or permission of the department.

CADD 274 (F) 3 hrs. cr.
Digital Animation Applications
Integration of real life forms with computer generated images, using state of the art scanning, digital touch probe, and motion capturing systems. One hr. lecture, 4 hrs. of lab. Prerequisites: CADD 272 or permission of the department.

CADD 276 (S) 3 hrs. cr.
Computer Animation Studio
Capstone course to enable students to develop professional material for their portfolio. Using the latest, state of the art computer animation tools to complete their studio requirements. One hr. lecture, 4 hrs. of lab. Prerequisites: CADD 274 or permission of the department.

CADD 450 (S) 3 hrs. cr.
Graphical Information Technology II
A seminar class applying the advanced applications of data transfer and manipulations within industrial environments. Topics could include advanced Internet applications, advanced Web page design, data formatting, and other topics as the technology changes. One hr. lecture, 4 hrs. of lab. Prerequisite: CADD 271

Computer Assisted Manufacturing Technology (CAMT)

Ummel Technology Building 119, 625-9327
E-Mail: schultz-d@mail.mssc.edu

Faculty Duggal-Head, Schultz

The department offers an associate of science degree. The requirements of this degree will provide a progressive and flexible technical education, which will assist in securing employment in rapidly changing technological fields.

A variety of courses in this program emphasize the use of computers and various software which enrich the skills acquired by the students to compete in this ever-changing age of modern technology. These include: Computer Numerical Control, Introduction to 3D CADD, Fundamentals of Robotics, Computer Animation in Industry, Computer Assisted Manufacturing and Computerized Production Planning and Control Systems. General education course work in mathematics, physical science, english, history and communications will give the student a total education.

The courses in the Computer Assisted Manufacturing Technology curriculum are designed to provide the students with applications-oriented training in both basic and advanced aspects of technology. Lectures followed by Lab training on equipment such as a computer numerical control machining center and an industrial robot enable the student to apply information learned in lecture and also allow for individual innovation. Students have received recognition in world-class competition for innovative developments in robotics.

Professional faculty interact with local industry to insure that instruction is current with the latest technological developments. This interaction of faculty and involvement of an individual in Society of Manufacturing Engineers Student Chapter provides students with excellent contacts for internships and employment.

Baccalaureate Options

Students who complete the A.S. degree in CAMT may continue their education by pursuing a baccalaureate degree in one of three areas:

- Manufacturing Information Management Systems (MIMS)
- Computer Information Science
- Management Technology

The first option (refer to MIMS section, see page 178) is a joint degree offered through both the School of Technology and the School of Business Administration designed to equip the manufacturing technologist with vital management skills in areas such as TQM, SQC/SPC, EDI and Computerized Manufacturing Applications. The second option is a BS degree with a background in LAN management, data structures and data base operation. The third option would provide management and marketing skills that would lead to an entry level management position in manufacturing.

We also offer a one-year certificate program in Manufacturing Applications. For additional information contact the CAMT department.

Associate of Science Degree
Major Code 5399
Computer Assisted Manufacturing Technology

		Semester Hours
Core Requirements (p. 33)		**26**
Computer Assisted Manufacturing Technology Requirements		**38**
CAMT 100	Intro to Machine Tool Processes	3
CAMT 105	Precision Machining	3
CAMT 150	Materials and Processes	3
CAMT 160	Inspect & Gaging	3
CAMT 200	Computer Numerical Control	3
CAMT 202	Tool Design/Manufacture	3
CAMT 250	Computer Assisted Manufacturing	3
CADD 110	Engineering Graphics I	3
CADD 115	Intro to 3D CAD	3
Math 112	Trigonometry	3
MIMS 310	Computer Prod Planning	3
Manufacturing Technology Electives	(at least 5 hours)	**5**
CADD 272	3D Computer Animation	3
CADD 204	Industrial Statics and Strength of materials	3
CAMT 250	Comp Assisted Manu	3
MIMS 310	Comp Prod Planning	3
CORE	[Humanities/Fine Arts]	3
CORE	[Kine 103 Lifetime Wellness]	2
Technical Elective		2
		16

Suggested Order of Study

Associate of Science Degree
Major Code 5399
Computer Assisted Manufacturing Technology Major

Freshman Year
1st Semester

Course		Hours
CAMT 100	Intro Mach Tool Processes	3
CAMT 150	Materials & Processes	3
CAMT 160	Inspect & Gaging	3
CADD 110	Engineering Graphics I	3
CORE	College Algebra (Math 130)	
OR		
CORE	Inter Algebra (Math 030)	3
CORE	[Psy 120 College Orient]	1
		16

2nd Semester

CAMT 105	Precision Machining	3
CADD 115	Intro to 3D CADD	3
Math 112	Trigonometry	
OR		
Math 140	Algebra & Trig	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 101 Physical Activity]	1
		16

Sophomore Year

1st Semester

CAMT 202	Tool Design/Manufacture	3
CAMT 200	Comp Numeric Control	3
CORE	(Phys 100 Fund of Phys Sci)	5
CORE	(Hist 110/Hist 120)	3
Technical Elective		3
		17

2nd Semester

CORE	[Econ 201Econ-Macro]	3
CAMT 250	Comp Assisted Manu	3
MIMS 310	Comp Prod Planning	3
CORE	[Humanities/Fine Arts]	3
CORE	[Kine 103 Lifetime Wellness]	2
Technical Elective		2
* MO Const. Test or PSc 120		3
		16-19

For additional information contact:
Dr. J. S. Duggal
Office: Ummel Technology Building 115
Phone: 625-9305
E-Mail: duggal-j@mail.mssc.edu

Course Descriptions

CAMT 100 (F, S) 3 hrs. cr.
Intro to Machine Tool Processes
The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blueprint reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, mills. One hr. lecture, 4 hrs. lab.

CAMT 105 (F, S) 3 hrs. cr.
Precision Machining
An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. One hr. lecture, 4 hrs. of lab. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

CAMT 110 (F, S) 1 hrs. cr.
Fundamentals of Cutting Tools
Introduction to tool geometry, chip formation and effects of coolants and tool design on tool life. Instruction on the sharpening of standard cutting tools for drilling, formed relieved end mills and mill cutters, and the applications of various factors on machinability. The use of carbides and ceramics as cutting tools. One hr. lecture, 4 hrs. of lab. Prerequisite: It is also recommended that students take CAMT 100 as a prerequisite or concurrently.

CAMT 150 (F, S) 3 hrs. cr.
Materials and Processes
A survey of manufacturing materials and processes. Properties of ferrous metals and nonferrous metals and plastics. Introduction and application of the principles of casting, welding, molding, hot working, cold working, stamping, forming and material removal processes. One hr. lecture, 4 hrs. of lab. Prerequisite: It is also recommended that students take CAMT 100 as a prerequisite or concurrently.

CAMT 160 (S) 3 hrs. cr.
Inspection and Gaging
Inspection, gaging and precision measurement procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One hr. lecture, 4 hrs. of lab.

CAMT 200 (F, S) 3 hrs. cr.
Computer Numerical Control
Basic numerical control concepts and applications, the operation and setup of numerical control machines including Vertical machining centers and turning centers, numerical control programming as applied to machining applications using MDI. One hr. lecture, 4 hrs. of lab. Prerequisites: CAMT 100, CADD 110, Math 30 or 112 or consent of instructor.

CAMT 210 (S) 3 hrs. cr.
Computer Animation For Industry
Fundamentals of computer animation on a personal computer focusing on industrial applications, such as product promotion and marketing, motion simulation of machine elements and mechanisms, and its use in presentation, training and instruction. Involves imparting movement and photorealistic appearance to geometric shapes and models. One hr. lecture, 4 hrs. of lab. Prerequisites: CADD 115 or COMP 105 or permission of the department.

CAMT 220 (F) 1 hr. cr.
Fundamentals of Robotics
Fundamental concepts underlying robot programming and its applications in the manufacturing industry. Covers operation of an industrial robot arm, both lead through and textual programming, end effector design, interfacing with computers and CNC machines and control systems. Class meets for five weeks. One hr. lecture, 4 hrs. of lab. Prerequisite: Take concurrently with CAMT 110 and CAMT 150 as a 3 hr. block. It is also recommended that students take CAMT 100 as a prerequisite or concurrently.

CAMT 240 (S) 3 hrs. cr.
Industrial Materials
Introduction to metallurgy and nonmetallic materials currently used in today's manufacturing settings. Theory and application of principles for identifying, producing, conditioning and testing materials. Laboratory activities involve both manual and computer assisted testing. One hr. lecture, 4 hrs. of lab. Prerequisite: CAMT 150.

CAMT 250 (S) 3 hrs. cr.
Computer Assisted Manufacturing
Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. One hr. lecture, 4 hr. laboratory per week. Prerequisites: CAMT 200 or consent of instructor.

CAMT 298 (Demand) 1-8 hrs. cr.
Selected Topics in Manufacturing Technology
Special topics in new or emerging manufacturing technology not normally included in another course. Prerequisites specified by the department in a course syllabus.

CAMT 310 (F) 4 hrs. cr.
Manufacturing Data Processing
Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

CAMT 330 (Demand) 3 hrs. cr.
Quality Control and Reliability
The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC covering control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

CAMT 490 (Demand) 1-8 hrs. cr.
Internship in Manufacturing Technology
A structured work experience in manufacturing technology at an institution, facility or industry not directly related to Missouri Southern. Practical application of the students' majors under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

CAMT 498 (Demand) 1-3 hrs. cr.
Seminar in Manufacturing Technology
Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

CAMT 499 (Demand) 1-3 hrs. cr.
Independent Study in Manufacturing Technology
Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when enrolling in the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

Manufacturing Information Management Systems (MIMS)

(See page 132 - School of Business Administration for more information)
Ummel Technology Building 111A, 625-9754
E-Mail: eze-m@mail.mssc.edu

Faculty Duggal-Head, Eze

This degree program blends the management, design and manufacturing application aspects in a unique way to produce a graduate that is functional at floor level manufacturing and management environment. The degree program has two options. Option A focuses on Manufacturing and Option B focuses on Mechanical Design.

Suggested Order of Study

Bachelor of Science in Management
Major Code 4997
Technology with an emphasis in Manufacturing Information Management Systems (MIMS)
OPTION A: Manufacturing
Junior Year
1st Semester

Course		Hours
MIMS 310	Comp Prod Plan/Control	3
Acct 201	Prin of Accounting I	3
GB 321	Business Stats I	3
MM 350	Prin of Management	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 201 Econ-Macro]	3
		18

2nd Semester

MM 354	Total Quality Mgmt	3
GB 405	Statist Quality Control	3
MIMS 420	Mfg Computer Appl	3
CORE	[Fine Arts/Humanities]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[GB 310 International Business]	3
		16

Senior Year
1st Semester

CIS 315	Lan Mgmt	3
MM 431	Operations Mgmt	3
MIMS 320	Applied Stat Quality Ctrl	3
MIMS 350	Ind Supervision	3
CORE	[Fine Arts/Humanities]	3
		15

2nd Semester

Econ 202	Prin of Econ-Micro	3
MIMS 450	Graphic Information Tech. II	3
MIMS 490	Mfg Appl	3
CORE	[PSc 120 Govt: U.S./Sta/Loc]	3
CORE	[Hist 120/320]	3
		15

Students should consult the Department Head for the Design Manufacturing Information Technologies at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

Suggested Order of Study

Bachelor of Science in Management
Major Code 4997
Technology with an emphasis in Manufacturing Information Management Systems (MIMS)
OPTION B: Mechanical Design
Junior Year
1st Semester

Course		Hours
MIMS 310	Comp Prod Plan/Control	3
MIMS 315	Statics for Engineering Tech.	3
CAMT 240	Industrial Materials	3
MM 350	Prin of Management	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 201 Econ-Macro]	3
		18

2nd Semester

MIMS 325	Dynamics and Kinematics For Engineering Technology	3
GB 405	Statist Quality Control	3
MIMS 420	Mfg Computer Appl	3
CORE	[Fine Arts/Humanities]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[GB 310 Intern'l Business]	3
		16

Senior Year
1st Semester

CIS 315	Lan Mgmt	3
MIMS 305	Basic Electricity & Electronics	3
MIMS 415	Mechanical Design	3
MIMS 405	Mechanics of Materials	3
CORE	[Fine Arts/Humanities]	3
		15

2nd Semester

Econ 202	Prin of Econ-Micro	3
MIMS 425	CAD/CAM Systems	3
MIMS 435	Professional Internship	3
CORE	[PSc 120 Govt: U.S./Sta/Loc]	3
CORE	[Hist 120/320]	3
		15

For additional information contact:
Dean of School of Technology
Office: Justice Center
Phone: 625-9328
E-Mail: spurlin-j@mail.mssc.edu

For additional information contact:
Dr. J. S. Duggal-Head, Design Manufacturing Information Technologies
Office: Ummel Technology 115
Phone: 625-9305
E-Mail: duggal-j@mail.mssc.edu

For additional information contact:
Dean of School of Business Administration
Office: Matthews Hall 302
Phone: 625-9319
E-Mail: gray-j@mail.mssc.edu

Course Descriptions

MIMS 305 3 hrs. cr.
Basic Electricity and Electronics
An integrated study of DC and AC circuits in which the sinusoidal system is introduced early in the course. Covers the concepts of Ohm's Law, Kirchoff's Laws and DC circuits such as series circuits, parallel circuits, and series-parallel circuits. The study of capacitors and inductors serves as an introduction to the sinusoidal system and the behavior of R, L, and C in a sinusoidal system. The laboratory component includes the use of test instruments dealing with Ohm's Law, series circuits, parallel circuits and series-parallel circuits, followed by a study of internal resistance and loading. The final experiment supplies facility in the applications of the oscilloscope. Two hrs. lecture, 2 hrs. lab. Prerequisite: Math 302. Phys 151.

MIMS 310 (F) 3 hrs. cr.
Computer Production/Planning Control
Theory and application of production and inventory management philosophies and techniques as they relate to the study of computer-integrated manufacturing (CIM). Students will address such areas as material handling, scheduling, MRP, JIT, inventory control models, lean manufacturing, flexible manufacturing systems, shop-floor control, etc. Two hrs. lecture, 2 hrs. lab. Prerequisites: Math 130, Comp 105 or CIS 305.

MIMS 315 3 hrs. cr.
Statics for Engineering Technology
Practical aspects of statics and strength of materials with emphasis on comprehension of underlying principles and their applications. Topics include: vector algebra, force equilibria, moments, trusses, static and kinetic friction, mechanical properties of materials, stress and strain, thin-walled vessels, beams, shear and bending moment and torsion.Two hrs. lecture, 2 hrs. lab. Prerequisites: Math 302, Phys 151.

MIMS 320 (F) 3 hrs. cr.
Applied Statistical Quality Control
The concept of quality and its applications. Importance and impact of Total Quality Control for manufacturing and service industries in today's age of global competition. Tools and techniques of Statistical Quality/Process Control including control charts, capability analysis, Sampling Plan and Taguchi Methods for problem solving will be discussed. Aspects of inspection, testing, sampling plan as they relate to interface with quality control and automated data collection will be covered. Two hrs. lecture, 2 hrs. lab. Prerequisites: GB 321, GB 405 or permission of the instructor.

MIMS 325 3 hrs. cr.
Dynamics and Kinematics for Engineering Technology
Second part of a two semester course in mechanics. Includes: Kinematics, rectilinear and angular motion, plane motion, principles of work, energy and power, impulse and momentum with practical applications to engineering technology., basic motion analysis, rotary motion, cams, gears and introduction to automation devices. Two hrs. lecture, 2 hrs. lab. Prerequisites: Math 302, Phys. 151.

MIMS 350 (F) 3 hrs. cr.
Industrial Supervision *(Writing Intensive)*
A dynamic look at the interrelationship between work assignments, work performance, and performance outcomes within an industrial work environment. An examination of group dynamics, presentations, and basic interpersonal skills will be combined to establish an understanding and develop a sense of commitment to a positive and progressive work ethic. Prerequisite: Junior standing.

MIMS 410 (S) 3 hrs. cr.
International Trends in Manufacturing
(Writing Intensive)
Discussion of issues and trends in U.S. manufacturing and technology with special emphasis on the causes and consequences of its internationalization in the face of global competition. Course content may vary to ensure that contemporary or latest developments are highlighted. Prerequisites: Junior standing, 6 hrs. of English Comp. or permission of the department.

MIMS 415 3 hrs. cr.
Mechanical Design
Machine elements in mechanical design, design for different modes of failure, tolerances and fits, shaft design, keys and couplings, springs, spur gears, belts and chains, clutches and brakes, and rolling contact bearing. Two hrs. lecture, 2 hrs. lab. Prerequisite: Math 302, Phys 151

MIMS 420 (S) 3 hrs. cr.
Manufacturing Computer Applications
Introduces problem solving and analysis in the application of integrated manufacturing information systems software. Includes: design, production routing, project planning and tracking, material handling and inventory control, coding and classification using current integrated manufacturing software.

MIMS 425 3 hrs. cr.
CAD/CAM Systems
Meaning and purpose of applying computers to manufacturing processes in an integrated way. The fundamental concepts of manufacturing and automation are studied starting with production operations, automation strategies and economic analysis in production. Topics include high volume production systems covering computer technology and manufacturing, automated flow lines and computer numerical control manufacturing. Two hrs. lecture, 2 hrs. lab. Prerequisite: Senior Standing.

MIMS 435 3 hrs. cr.
Professional Internship
An eight week supervised industrial training experience in a design manufacturing engineering environment. The intern will be placed with a cooperating company to work under the guidance of the college and the company on various product design manufacturing activities. This experience should greatly expand and support the educational experience provided to the student. Prerequisite: Completion of junior year coursework CIS 315, MIMS 310.

MIMS 450 (S) 3 hrs. cr.
Graphical Information Technology II
A seminar class designed to apply the advanced applications of data transfer and manipulations within industrial environments. Topics could include advanced Internet applications, advanced Web page design, data formatting, and other topics as the technology changes. One hr. lecture 4 hrs. lab. Prerequisite: CADD 271.

MIMS 490 (S) 3 hrs. cr.
Manufacturing Applications (Capstone)
Allows the student to build on all the skills and knowledge gained in prior coursework and creative implementation of the concepts learned through projects or internships pertaining to various manufacturing applications. Will work in teams on project(s) that will take them from ideas through various aspects of design, development and manufacturing to conclusion. Prerequisites: Senior standing, Math 140, MIMS 310, MIMS 320, or CAMT 330, GB 321, MM 354, GB 405, MIMS 420 or by permission of instructor.

Certificates of Competencies

The competency certificate programs in Manufacturing Applications are offered through Computer Aided Drafting and Design Engineering Technologies (CADD) and Computer Assisted Manufacturing Technology (CAMT) programs. These certificates can be earned by completing four course sequences.

The student has four options to choose from:

- CADD Operator
- CNC Operator
- Reverse Engineering Technician
- Quality Technician

CADD Operator

The program is structured to prepare individuals to perform Computer Aided Drafting and Design work in CADD laboratories. The trained individual will have the skills to prepare drawings for manufacture and make design amendments to existing drawings using CADD programs. The program will prepare the individual to work as a CADD operator, as well as a drafting technician and a detailer.

Suggested Order of Study

Certificate of Competency
CADD Operator

Course		Hours
CAMT 100	Introduction to Machine Tool Processes	3
CADD 110	Engineering Graphics I	3
CADD 115	Introduction to 3D Computer Aided Drafting	3
CADD 130	Engineering Graphics II	3

CNC Operator
The program is designed to provide skills in the operation of Computer Numerical Controlled (CNC) lathe and milling machines. The student will be equipped to be a CNC Technician upon completion of the program.

Suggested Order of Study

CNC Operator

Course		Hours
CAMT 100	Introduction to Machine Tool Processes	3
CADD 110	Engineering Graphics I	3
CAMT 160	Inspection and Gaging	3
CAMT 200	Computer Numerical Control	3

Reverse Engineering Technician
The program is structured to prepare individuals to perform work related to re-creating drawings from parts in existence and modifying the drawings for retooling for manufacture. The trained individual will have skills to operate equipment such as a 3D Scanner, CMM. and Faro Arm in recreating 2D and 3D drawings. The individual will also transform the drawings to meet the needed specifications for manufacture. The program will prepare the individual to work as a Reverse Engineering Technician, Coordinate Measuring Technician and a CADD Interface Technician.

Suggested Order of Study

Reverse Engineering Technician

Course		Hours
CAMT 100	Introduction to Machine Tool Processes	3
CADD 110	Engineering Graphics I	3
CAMT 160	Inspection and Gaging	3
CAMT298	Reverse Engineering Tools and Practices	3

Quality Technician
The program is structured to prepare individuals to perform inspection techniques and assure quality in manufacturing and service industries. The trained individual will have the skills to assist a Quality Engineer in inspecting, gathering and analyzing data pertinent to products and services to maintain the desired quality. The program will prepare the individual to work as a Quality Technician, Quality Inspector, and Quality Analyst.

Suggested Order of Study

Quality Technician

Course		Hours
Math 030	Intermediate Algebra*	3
Math 130	College Algebra	3
CAMT 160	Inspection and Gaging	3
GB 321	Business Statistics I	3
MIMS 320	Applied Quality Control	3

* or Placement Test or Acceptable ACT Score

For additional information contact:
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Computer Information Science

Matthews Hall 223, 625-9383

Faculty Oakes - Head, Collins, Earney, Herr, Kemm, Mays, Pinet, Tunnell

The Computer Information Science (CIS) department provides opportunities for a broad undergraduate education in the many aspects of computer hardware and software. The faculty's main objective is to offer courses of instruction that develop a thorough understanding of methods for utilizing computer technology in the design and implementation of solutions to complex management, scientific, and engineering problems. Within this context, the department offers the following curricula options:

- Bachelor of Science in CIS - Information Systems
- Bachelor of Science in CIS - Computer Science
- Bachelor of Science in CIS - Computational Mathematics
- Bachelor of Science in CIS - Informatics
- Bachelor of Science in CIS - Computer Technology
- Minor in CIS - Network Systems Administration
- Minor in CIS - Information Systems
- Minor in CIS - Computer Science
- Associate of Science in CIS - Network Systems Administration
- Associate of Science in CIS - Information Systems
- Associate of Science in CIS - Computer Science
- Certificate of Achievement in Network Systems Administration

The bachelor of science alternatives prepare the student for graduate school or entry level positions such as systems programmer, systems analyst, applications programmer, or network administrator. A minor or associate of science provides the student pursuing some other major with a credential and expertise in computing, an enhancement which is becoming increasingly important in almost every area of science, education, business, and the arts.

The information systems/informatics major is distinguished by selected CIS and business classes which develop the student's understanding of an organization's information requirements and procedures for designing an information system which will facilitate the management of the organization. The computer science major requires that the student take CIS and mathematics classes that develop an expertise in applied mathematics and the theoretical foundations of computer science. Such knowledge is required to design and implement computer solutions for a wide range of problems encountered in science and engineering.

The computational mathematics curriculum meets the requirements for a double major in computer information science and mathematics. Computer technology qualifies the student for an associate of science degree in computer aided drafting and design (CADD) or computer assisted manufacturing technology (CAMT), as well as a major in CIS.

The network systems administration alternatives are designed to provide the student with the knowledge base necessary for managing local/wide area computer

networks, as well as being able to provide user support and training in the area of personal computer hardware and application software.

The nature of computer information science is such that a student selecting this major should enjoy and have a talent for solving problems. The effectiveness of the CIS curricula is measured by the success of our graduates. Their average starting salaries are among the highest when compared to other majors, and placement records indicate that they have enjoyed an excellent placement rate. Many hold positions as middle and upper-level managers for a wide range of organizations, and several have earned graduate degrees.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements for the major or minor in computer science.

Bachelor of Science in CIS - Information Systems Major

Core Requirements (p. 33) (51*)		**45**
CIS Core		**42**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 230	Report Program Generation (RPG)	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 321	Interactive RPG/400	3
CIS 334	Advanced Structured COBOL	3
CIS 350	Data Structures	3
CIS 370	Programming for the Internet	3
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 450	Operating Systems (WI)	3
Business Core		**21**
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Econ 201	Principles of Economics (Macro)	3
Econ 202	Principles of Economics (Micro)	3
MM 350	Principles of Management (WI)	3
Business Electives**		6
Mathematics Core		**3**
Math 130 or above		3
General Electives		**13**
Total		***124***

* Mathematics and economics courses in major requirements satisfy six hours of the Core Curriculum.
** Business Core must be approved by the student's adviser and CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Bachelor of Science in CIS - Computer Science Major

Core Requirements (p. 33) (51*)		**43**
CIS Core		**42**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 334	Advanced Structured COBOL	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 370	Programming for the Internet	3
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 430	Introduction to Artificial Intelligence	3
CIS 450	Operating Systems (WI)	3
Mathematics Core **		**21**
Math 150	Calculus with Analytic Geometry I	5
Math 250	Calculus with Analytic Geometry II	5
Math 260	Calculus with Analytic Geometry III	5
Math 300	Fundamentals of Math Thought	3
Math elective (Math 320 or above)		3
Physics Core		**5**
Phys 151	Elementary College Physics I	5
General Electives		**13**
Total		***124***

* Mathematics and physics courses in major requirements satisfy eight hours of the Core Curriculum.
** Mathematics Core qualifies for a minor in mathematics.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Bachelor of Science in CIS - Computational Mathematics Major *

Core Requirements (p. 33) (51)**		**43**
CIS Core		**33**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 370	Programming for the Internet	3
CIS 425	Database Management Systems (WI)	3
CIS 430	Introduction to Artificial Intelligence	3
CIS 450	Operating Systems (WI)	3
CIS Elective excluding CIS 305		3
Mathematics Core		**33**
Math 150	Calculus with Analytic Geometry I	5
Math 250	Calculus with Analytic Geometry II	5
Math 260	Calculus with Analytic Geometry III	5
Math 300	Fundamentals of Mathematical Thought	3
Math 350	Introduction to Numerical Analysis	
OR		
Math 431	Numerical Analysis	3
Math 351	Linear Algebra	3
Math 371	Introduction to Operations Research (WI)	3
Math Electives Math 320 and above		6
Supporting Requirements		**13**
Phys and Chem Electives ***		
General Electives		**2**
Total		***124***

* This option also qualifies for a bachelor of science in mathematics. It is listed as the computational mathematics alternative in the Mathematics section of the catalog.
** Mathematics, chemistry, and physics courses in major requirements satisfy eight hours of the Core Curriculum.
*** Must include one from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300).

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics and computer information science requirements.

Bachelor of Science in CIS Informatics Major

Core Curriculum (p. 33) (51*)		**48**
CIS Core		**42**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 230	Report Program Generation (RPG)	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 321	Interactive RPG/400	3
CIS 334	Advanced Structured COBOL	3
CIS 350	Data Structures	3
CIS 370	Programming for the Internet	3
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 450	Operating Systems (WI)	3
Business Core		**6**
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Mathematics Core		**3**
Math 130 or above		3
Professional Concentration **		**18**
General Electives		**7**
Total		***124***

*Mathematics course in major requirements satisfies three hours of the Core Curriculum.
**Professional Concentration must meet the requirements of a minor in an area such as a foreign language, communications, or criminal justice. This area must be approved by the students adviser and the CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Bachelor of Science in CIS - Computer Technology Major (CADD)*

Core Requirements (p. 33) (51)**		**48**
CIS Core		**33**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 370	Programming for the Internet	3
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 450	Operating Systems (WI)	3
CADD Core		**30**
CADD 110	Engineering Graphics I	3
CADD 115	Intro to Computer Aided Drafting	3
CADD 120	Descriptive Geometry	3
CADD 130	Engineering Graphics II	3
CADD 204	Industrial Statics	3
CADD 210	Technical Illustration	3
CADD 260	Engineering Graphics III	3
MIMS 310	Computerized Production Planning and Control Systems	3
CAMT 100	Intro to Machine Tool Processes	3
CAMT 150	Materials and Processes	3
Mathematics Core		**3**
Math 112	Trigonometry	3
(or as approved by adviser)		
General Electives		**10**
Total		***124***

* This option also qualifies for an associate of science in computer aided drafting and design.
** Mathematics course in major requirements satisfies three hours of the Core Curriculum.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Bachelor of Science in CIS - Computer Technology Major (CAMT)*

Core Requirements (p. 33) (51)**		**48**
CIS Core		**33**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 370	Programming for the Internet	3
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 450	Operating Systems (WI)	3
CAMT Core		**30**
CAMT 100	Intro to Machine Tool Processes	3
CAMT 105	Intermediate Machine Tool Processes	3
CAMT 110	Fundamentals of Cutting Tools	1
CAMT 150	Materials and Processes	3
CAMT 160	Inspection and Gaging	1
CAMT 200	Computer Numerical Control	3
CAMT 220	Robotics	1
CAMT 250	Computer Assisted Manufacturing	3
CADD 110	Engineering Graphics I	3
CADD 115	Intro to Computer Aided Drafting	3
CADD 130	Engineering Graphics II	3
MIMS 310	Computerized Production Planning and Control Systems	3
Mathematics Core		**3**
Math 112	Trigonometry	3
(or as approved by adviser)		
General Electives		**10**
Total		***124***

* This option also qualifies for an associate of science in computer assisted manufacturing technology.
** Mathematics course in major requirements satisfies three hours of the Core Curriculum.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Minor in CIS - Network Systems Administration

CIS Core		**21**
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 320	NetWare LAN Admin.	3
CIS 325	NT Server LAN Admin.	3
CIS 355	Computer Networks II	3
Total		***21***

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Minor in CIS - Information Systems Minor

CIS Core		**15**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 302	Information Systems I (WI)	3
CIS 410	Information Systems II	3
Comp/CIS Electives (excluding Comp 105)		3
Professional Core *		**6**
Total		***21***

* Must be selected from the students major area with approval of the CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Minor in CIS - Computer Science Minor

CIS Core		**15**
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 310	Visual Programming Tools	3
CIS 350	Data Structures	3
Comp/CIS Elective (above Comp 110)		3
Professional Core *		**6**
Total		***21***

* Must be selected from the students major area with approval of the CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Associate of Science in CIS - Network Systems Administration

Core Requirements (p. 33)*(25-26*)		**22-23**
CIS Core		**24**
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 315	Computer Networks I	3
CIS 320	NetWare LAN Admin.	3
CIS 325	NT Server LAN Admin.	3
CIS 345	UNIX System Admin.	3
CIS 350	Data Structures	3
CIS 355	Computer Networks II	3
Math Core		**3**
Math 130 or above		3
General Electives		**14-15**
Total		***64***

*Mathematics course in major requirements satisfies three hours of the CORE Curriculum.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Associate of Science in CIS - Information Systems Major

Core Requirements (p. 33) (25-26*)		**22-23**
CIS Core		**24**
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 302	Information Systems I (WI)	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 410	Information Systems II	3
Comp/CIS Elective (above Comp 110)		3
Mathematics Core		**3**
Math 130 or above		3
Professional Core **		**6**
General Electives		**8-9**
Total		***64***

* Mathematics requirement satisfies three hours of the Core Curriculum.
** Must be selected from an auxiliary area such as art, biology, business, communications, mathematics, nursing, etc. with the approval of the CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Associate of Science in CIS - Computer Science Major

Core Requirements (p. 33)(26*)		**18**
CIS Core		**21**
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
CIS 370	Programming for the Internet	3
Comp/CIS Electives (above Comp 110)		6
Mathematics Core		**5**
Math 150	Calculus with Analytic Geometry I	5
Physics Core		**5**
Phys 151	Elementary Physics I	5
Professional Core **		**6**
General Electives		**9**
Total		***64***

* Mathematics and physics courses satisfy eight hours of the Core Curriculum.
** Must be selected from an auxiliary area such as art, biology, business, communications, mathematics, nursing, etc. with the approval of the CIS department head.

Only computer information science courses in which a student has earned a grade of "C" or above can be used to satisfy departmental requirements.

Certificate of Achievement in Network Systems Administration

Math 130	or higher	3
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 310	Visual Programming Tools	3
CIS 315	Computer Networks I	3
CIS 320	NetWare LAN Admin.	3
CIS 325	NT Server LAN Admin.	3
CIS 345	UNIX System Admin.	3
CIS 355	Computer Networks II	3
Total		***27***

Suggested Order of Study

Bachelor of Science in CIS - Information Systems Major

Freshman Year

1st Semester

Course		Hours
Comp 110	Programming I	3
Math 130	College Algebra	3
Psy 120	College Orientation	1
CORE	[Eng 101 Composition I (WI)]	3
CORE	[Psy 100 Gen Psy]	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
		16

2nd Semester

Comp 210	Programming II	3
Econ 201	Prin of Econ (Macro)	3
CORE	[Eng 102 Composition II (WI)]	3
CORE	[Bio 101 Gen Biology]	4
General Elective		3
		16

Sophomore Year

1st Semester

Comp 234	Bus DP Tech (COBOL)	3
Acct 201	Principles of Accounting I	3
Econ 202	Prin of Econ (Micro)	3
CIS 310	Visual Programming Tools	3
CORE	[Phys 100 Phys Sci]	5
		17

2nd Semester

Comp 230	Rpt Prog Gen (RPG)	3
CIS 334	Adv Structured COBOL	3
CIS 350	Data Structures	3
Acct 202	Prin of Acct II	3
General Elective		3
		15

Junior Year

1st Semester

CIS 321	Interactive RPG/400	3
CIS 370	Programming for the Internet	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 C. Lit/Humanity]	3
CORE	[Hist 110 U.S. History]	3
		15

2nd Semester

Comp 302	Information Systems I (WI)	3
CIS 315	Computer Networks I	3
CORE	[PSc 120 Govt:US,St,Local]	3
MM 350	Principles of Management	3
Business Elective		3
		15

Senior Year

1st Semester

CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
CORE	[Hist 120 U.S. History]	3
Business Elective		3
General Elective		3
		15

2nd Semester

CIS 425	Database Mgmt Sys (WI)	3
CORE	[Area 5 A. International Study]	3
CORE	[Area 2 A. Fine Art]	3
CORE	[Area 2 B. Literature]	3
Business Elective		3
		15

Bachelor of Science in CIS - Computer Science Major

Freshman Year

1st Semester

Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Composition I (WI)]	3
CORE	[Psy 100 General Psychology]	3
		15

2nd Semester

Comp 210	Programming II	3
Math 250	Calculus II	5
CORE	[Eng 102 Composition II (WI)]	3
CORE	[Bio 101 General Biology]	4
CORE	[Kine 103 Lifetime Wellness]	2
		17

Sophomore Year

1st Semester

Comp 234	Bus DP Tech (COBOL)	3
Math 260	Calculus III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Kine 101 Physical Activity]	1
		15

2nd Semester

CIS 310	Visual Programming Tools	3
CIS 334	Advanced Structured COBOL	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Area 2 A. Fine Art]	3
		15

Junior Year

1st Semester

CIS 370	Programming for the Internet	3
CIS 430	Intro to Artificial Intelligence	3
Phys 151	Elem Coll Physics I	5
Math Elective (Math 320 or above)		3
General Elective		3
		17

2nd Semester

Comp 302	Information Systems I (WI)	3
CIS 315	Computer Networks I	3
CORE	[PSc 120 Govt: US,St,Local]	3
CORE	[Area 2 C. Lit/Humanity]	3
General Elective		3
		15

Senior Year

1st Semester

CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
CORE	[Area 5 A. International Study]	3
CORE	[Econ 180 Amer Econ Sys]	3
General Elective		3
		15

2nd Semester

CIS 360	Computer Graphics	3
CIS 425	Database Mgmt. Systems (WI)	3
CORE	[Area 2 B. Literature]	3
CORE	[Hist 120 U.S. History]	3
General Elective		3
		15

Bachelor of Science in CIS - Computational Mathematics Major

Freshman Year

1st Semester

Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Psy 100 General Psychology]	3
CORE	[Eng 101 Composition I (WI)]	3
		15

2nd Semester

Comp 210	Programming II	3
Math 250	Calculus II	5
Phys 151	Elem College Physics I	5
CORE	[Eng 102 Composition II (WI)]	3
		16

Sophomore Year

1st Semester

Comp 234	Bus DP Tech (COBOL)	3
Math 260	Calculus III	5
Chem 101	General Chemistry I	5
CORE	[Comm 100 Oral Comm]	3
		16

2nd Semester

CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Area 2 A. Fine Art]	3
		15

Junior Year
1st Semester

CIS 370	Programming for the Internet	3
CIS 430	Intro to Artificial Intelligence	3
Math 371	Intro to Oper Research (WI)	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
		16

2nd Semester

CIS 425	Database Mgmt Systems (WI)	3
Math 350	Intro to Numerical Analysis	3
CORE	[Area 5A. International Study]	3
CORE	[PSc 120 Govt: US,St,Local]	3
Math	Elective	3
		15

Senior Year
1st Semester

CIS 450	Operating Systems (WI)	3
Math 351	Linear Algebra	3
CORE	[Econ 180 Amer Econ Sys]	3
Chem	or Phys Elective	3
CORE	[Hist 120 U.S. History]	3
General Elective		1
		16

2nd Semester

CIS 360	Computer Graphics	3
CORE	[Area 2 B. Literature]	3
CIS	Elective	3
Math	Elective	3
CORE	[Area 2 C. Lit/Humanity]	3
		15

Bachelor of Science in CIS Informatics Major

Freshman Year
1st Semester

Course		Hours
Comp 110	Programming I	3
Math 130	College Algebra	3
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 Gen. Psy.]	3
CORE	[Kine 101 Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
		16

2nd Semester

Comp 210	Programming II	3
CORE	[Area 2 A. Fine Art]	3
CORE	[Eng 102 Composition II (WI)]	3
CORE	[Bio 101 Gen. Biology]	4
Prof. Concentration		3
		16

Sophomore Year
1st Semester

Comp 234	Bus DP Tech (COBOL)	3
Acct 201	Principles of Accounting I	3
CIS 310	Visual Programming Tools	3
CORE	[Phys 100 Phys. Sci.]	5
Prof. Concentration		3
		17

2nd Semester

Comp 230	Rpt. Prog. Gen. (RPG)	3
CIS 334	Adv. Structured COBOL	3
CIS 350	Data Structures	3
Acct 202	Prin. of Acct. II	3
Prof. Concentration		3
		15

Junior Year
1st Semester

CIS 321	Interactive RPG/400	3
CIS 370	Programming For The Internet	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 C. Lit/Humanity]	3
CORE	[Hist 110 U.S. History]	3
		15

2nd Semester

Comp 302	Information Systems I (WI)	3
CIS 315	Computer Networks I	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[PSc 120 Govt:US,St,Local]	3
Prof. Concentration		3
		15

Senior Year
1st Semester

CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
CORE	[Hist 120 U.S. History]	3
Prof. Concentration		3
General Elective		3
		15

2nd Semester

CIS 425	Database Mgmt Sys (WI)	3
CORE	[Area 5 A. International Study]	3
CORE	[Area 2 B. Literature]	3
Prof. Concentration/General Elective		7
		16

Bachelor of Science in CIS - Computer Technology Major (CADD)

Freshman Year
1st Semester

Course		Hours
Comp 110	Programming I	3
Math 112	Trigonometry	3
CADD 110	Eng. Graphics I	3
CADD 115	Introduction to CADD	3
CORE	[English 101 Comp I WI]	3
Psy 120	College Orientation	1
		16

2nd Semester

Comp 210	Programming II	3
CADD 120	Descriptive Geometry	3
CADD 130	Eng. Graphics II	3
CORE	[Eng 102 Composition II (WI)]	3
CORE	[Bio 101 General Biology]	4
		16

Sophomore Year
1st Semester

Comp 234	Bus DP Tech (COBOL)	3
CADD 204	Industrial Statics	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Comm]	3
General Elective		3
		15

2nd Semester

CIS 350	Data Structures	3
CIS 310	Visual Programming Tools	3
CADD 210	Technical Illustration	3
CAMT 100	Intro to Mach Tool Proc	3
CORE	[Econ 180 Amer Econ System]	3
		15

Junior Year
1st Semester

CIS 315	Computer Networks I	3
CIS 370	Programming for the Internet	3
CADD 260	Computer Aided Drafting	3
CAMT 150	Modern Manufacturing Proc	3
CORE	[Area 2 C. Lit/Humanity]	3
		15

2nd Semester

Comp 302	Information Systems I (WI)	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 110 U.S. Hist]	3
CORE	[Area 2 A. Fine Art]	3
General Elective		3
		17

Senior Year
1st Semester

CIS 450	Operating Systems (WI)	3
CIS 410	Information Systems II	3
MIMS 310	Comp Prod/Planning Control	3
CORE	[Hist 120 U.S. History]	3
CORE	[Area 2 B. Literature]	3
		15

2nd Semester

CIS 425	Database Mgmt Sys (WI)	3
CORE	[Psy 100 Intro to Psy]	3
CORE	[Area 5 A. International Study]	3
CORE	[PSc 120 Gov't:US,St,Local]	3
General Elective		4
		16

Bachelor of Science in CIS - Computer Technology Major (CAMT)

Freshman Year
1st Semester

Course		Hours
Comp 110	Programming I	3
Math 112	Trigonometry	3
CADD 110	Eng. Graphics I	3
CADD 115	Introduction to CADD	3
CORE	[Eng 101 Composition I WI]	3
Psy 120	College Orientation	1
		16

2nd Semester

Comp 210	Programming II	3
CADD 130	Eng. Graphics II	3
CAMT 105	Precision Machining	3
CORE	[Eng 102 Composition II (WI)]	3
CORE	[Bio 101 General Biology]	4
		16

Sophomore Year

1st Semester

Comp 234	Bus DP Tech (COBOL)	3
CAMT 100	Intro to Mach Tool Pro	3
CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Comm]	3
General Elective		3
		15

2nd Semester

CIS 350	Data Structures	3
CIS 310	Visual Programming Tools	3
CAMT 110	Fund. Of Cutting Tools	1
CAMT 150	Modern Manufacturing Proc	3
CORE	[Econ 180 Amer Econ System]	3
CORE	[Area 2 A. Fine Art]	3
		16

Junior Year

1st Semester

CIS 315	Computer Networks I	3
CIS 370	Programming for the Internet	3
CAMT 200	Computer Numerical Control	3
CAMT 220	Robotics	1
CORE	[Area 2 C. Lit/Humanity]	3
CORE	[Area 2 B. Literature]	3
		16

2nd Semester

Comp 302	Information Systems I (WI)	3
CAMT 160	Materials and Process	1
CAMT 250	Computer Assisted Mftg	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 110 U.S. History]	3
		15

Senior Year

1st Semester

CIS 450	Operating Systems (WI)	3
CIS 410	Information Systems II	3
MIMS 310	Comp Prod/Plan Control	3
CORE	[Hist 120 U.S. History]	3
General Elective		3
		15

2nd Semester

CIS 425	Database Mgmt Sys (WI)	3
CORE	[Psy 100 Intro to Psy.]	3
CORE	[Area 5 A. International Study]	3
CORE	[PSc 120 Gov't:US,St,Local]	3
General Elective		3
		16

Associate of Science in CIS - Information Systems Major

Freshman Year

1st Semester

Course		Hours
Comp 110	Programming I	3
Math 130	or above	3
Psy 120	College Orientation	1
CORE	[Eng 101 Composition I (WI)]	3
CORE	[Area 4 B. PSc 120]	3
General Elective		3
		16

2nd Semester

Comp 210	Programming II	3
Comp 302	Information Systems I (WI)	3
CORE	[Area 2 A. Fine Art]	3
CORE	[Phy 100 or Bio 101]	4-5
Professional Core		3
		16-17

Sophomore Year

1st Semester

CIS 410	Information Systems II	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Kine 101 Physical Activity]	1
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 4 A. History 110]	3
General Elective		3
		15

2nd Semester

CIS 315	Computer Networks I	3
CIS 350	Data Structures	3
Comp/CIS Elective above Comp 110		3
Professional Core		3
General Electives		4-5
		16-17

Associate of Science in CIS - Computer Science Major

Freshman Year

1st Semester

Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Composition I (WI)]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Kine 103 Lifetime Wellness]	2
		17

2nd Semester

Comp 210	Programming II	3
CIS 315	Computer Networks I	3
Phys 151	Elem Coll Physics I	5
CORE	[Comm 100 Oral Comm]	3
Professional Core		3
		17

Sophomore Year

1st Semester

CIS 350	Data Structures	3
CORE	[Area 4 A. History 110]	3
CORE	[Kine 101 Physical Activity]	1
Professional Core		3
Comp/CIS Elective (excluding Comp 105)		3
General Elective		2
		15

2nd Semester

CIS 370	Programming for the Internet	3
Comp/CIS	Elective (excluding Comp 105)	3
CORE	[Area 2 A. Fine Art]	3
General Electives		6
		15

Associate of Science in CIS Network Systems Administration

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Composition I (WI)	3
Psy 120	College Orientation	1
Comm 100	Oral Communications	3
Math 130	College Algebra	3
Comp 110	Programming I	3
CORE	[Area 4.A History 110]	3
		16

2nd Semester

CORE	[Area 2.A.Fine Art]	3
Phys 100	Fund of Phys Science	5
Comp 210	Programming II	3
General Elective		3
CIS 315	Computer Networks I	3
		17

Sophmore Year

1st Semester

CORE	[Area 4.C. Economics]	3
General Elective		3
General Elective		3
CIS 320	NetWare LAN Admin.	3
CIS 345	UNIX Systems Administration	3
		15

2nd Semester

CORE	[Kine 101 Physical Activity]	1
CORE	[Kine 103 Lifetime Wellness]	2
General Elective		4
CIS 325	NT Server LAN Admin.	3
CIS 355	Computer Networks II	3
CIS 350	Data Structures	3
		16

For additional information contact:
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Course Descriptions

Computer Science (Comp)

Comp 105 (F, S) 3 hrs. cr.
Introduction to Microcomputer Use
The fundamental use of microcomputers through packaged software and operating systems. The student will be introduced to word processing, spreadsheets, presentation software, file management, and using the internet to aid in productivity and to develop a degree of confidence in the use of microcomputers.

Comp 110 (F, S) 3 hrs. cr.
Programming I
Introduces programming in a personal computer based environment. The student will learn the fundamentals of PC hardware, operating systems, and programming. Special emphasis is placed on proper program style, including modularity and structured design. The language of implementation is C++. Corequisite: Math 112, or Math 130 or above.

Comp 115 (Demand) 3 hrs. cr.
Programming in Visual Basic
Introduces the Visual Basic programming language. A service course for non-majors. Problem analysis and program design emphasized. The student will learn syntax and language features through arrays and files. Corequisite: Math 112, or Math 130 or above.

Comp 210 (F, S) 3 hrs. cr.
Programming II
Continued development of the programming and problem solving skills introduced in Comp 110. Structured programming and modular design are emphasized. Includes an in-depth coverage of pointers, strings, arrays, structures, and files. Introduction to linked lists, stacks, and queues. The language of implementation is C++. Prerequisite: Comp 110.

Comp 230 (S) 3 hrs. cr.
Report Program Generation (RPG)
Introduces the programming language RPG which is designed for quick and efficient production of business reports. Includes language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Prerequisite: Comp 210 or consent of department head.

Comp 234 (F) 3 hrs. cr.
Business Data Processing Techniques (COBOL)
Methods and techniques for solving business related problems using a business oriented language (COBOL). Applications may include payroll systems, inventory control systems, billing systems, sorting techniques, and file maintenance. Introduction to principles of software engineering. Prerequisite: Comp 210 or consent of department head.

Comp 298 (Demand) 1-3 hrs. cr.
Selected Topics in Computer Information Science
Each offering is a subject not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Comp 301 (Demand) 3 hrs. cr.
Principles of Digital Computing
Hardware and software concepts which are pertinent to the design of digital computers. Topics covered include data representation techniques, computer circuits, assemblers, compilers, loaders, I/O programming, microprocessors, memory hierarchy, memory management, and operating systems. Prerequisite: Comp 210 or above.

Comp 302 (S) 3 hrs. cr.
Information Systems I *(Writing Intensive)*
Introduces and develops understanding of an organization's information requirements and examines the design of information systems that facilitate its management. The criteria used to select appropriate hardware and software are investigated. Emphasis on the student's ability to analyze computer based information systems using standard analysis and design methodologies. Prerequisite: (Eng 102 or 111) and (Comp 110 or CIS 305 or MM 237) or consent of the department head.

Computer Information Science (CIS)

CIS 305 (F, S) 3 hrs. cr.
Microcomputer Applications
Overview of the most common software tools for the serious user of microcomputers. Topics covered include selection of hardware, basic elements of the graphic user interface, use of a local area network and the Internet. Major emphasis is placed on components of an integrated software suite of applications; word processing, spreadsheets, graphics, and presentation software. Prerequisite: (Comp 105 or higher) or (MM 237) or consent of the department head.

CIS 310 (F, S) 3 hrs. cr.
Visual Programming Tools
In-depth look at the most common environment and professional tools for the use of microcomputers. Hardware topics are included to allow the student to setup and configure a system, install peripherals, and reconcile their hardware and software combination. An operating system, graphic user interface, and local area network are examined with special emphasis on the automation of tasks and the customization of systems by programming constructs. The major components of an integrated software suite are extended to include database management applications, programming with Visual Basic, and a broad-based use of the Internet. Prerequisite: Comp 210.

CIS 315 (S) 3 hrs. cr.
Computer Networks I
Introduction to hardware and software which are integrated to form a computer network. Topics include data communication hardware, the seven protocol layers of the OSI ISO reference model, public networks such as the Internet, and an overview of Novell NetWare, Windows NT Server, and UNIX. Prerequisite: Math 130 and (Comp 110 or CIS 305 or MM 237 or CAMT 310) or consent of the department head.

CIS 320 (F) 3 hrs. cr.
NetWare LAN Administration
Introduction to the design, installation, and management of Novell NetWare local area networks. Network configuration, security, backup, and recovery are major topics. User rights and privileges and file and device sharing are also covered. Prerequisite CIS 315 or consent of the instructor.

CIS 321 (F) 3 hrs. cr.
Interactive RPG/400
On-line programming of business applications. Major topics include file creation and maintenance, structured methodologies, advanced features of RPG, and the IBM AS/400 environment. Prerequisite: Comp 230 or consent of instructor.

CIS 325 (S) 3 hrs. cr.
NT Server LAN Administration
Introduction to the design, installation, and management of Windows NT Server local area networks. Network configuration, security, backup and recovery are major topics. User rights and privileges and file and device sharing are also covered. Prerequisite: CIS 320 or consent of the instructor.

CIS 330 (Demand) 3 hrs. cr.
Assembly Language
Introduction to low-level machine architecture and assembly language programming using the IBM PC. Includes data representation, instruction set, program logic, and problem solving. In addition to the assembly, linking, and execution of programs; debugging, optimization, and interfacing to high-level languages will be practiced. Prerequisite: Comp 210.

CIS 334 (S) 3 hrs. cr.
Advanced Structured COBOL
On-line programming of business applications utilizing CICS in an IBM mainframe environment. File creation and maintenance (VSAM), and advanced features of COBOL are major topics. Prerequisite: Comp 234 or consent of instructor.

CIS 345 (F) 3 hrs. cr.
UNIX System Administration
Introduction to the UNIX operating system. Includes basic UNIX commands, the role of the system administrator, the file system, controlling processes, programming in the shell, the network file system, CGI programming, and system security. Prerequisite: CIS 315. Corequisite Comp 210 or consent of instructor.

CIS 350 (S) 3 hrs. cr.
Data Structures
Continued development of knowledge of data structures and object oriented programming. Includes an in-depth coverage of pointers, linked lists, stacks, queues, trees, and graphs. Special emphasis on the coverage of algorithms that are designed to efficiently manipulate these structures and techniques for selecting the most appropriate data structures for a given application. The language of implementation is C++. Prerequisite: Comp 210.

CIS 355 (S) 3 hrs. cr.
Computer Networks II
In-depth coverage of the knowledge and skills required to design, configure, install, and maintain an enterprise internetwork. Major topics include server and workstation platforms, network operating systems and clients, interconnecting LANs, connecting to a mainframe, and communication hardware such as network interface cards, hubs, routers, gateways, and cabling. Students gain hands-on experience in the installation and troubleshooting of hardware components. Prerequisite: CIS 320 and CIS 345.

CIS 360 (S, Odd) 3 hrs. cr.
Computer Graphics
Interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light, and color. The functional capabilities of computer graphics systems and their applications will be covered. Prerequisite: Math 150 and CIS 350.

CIS 370 (F) 3 hrs. cr.
Programming for the Internet
Basic concepts and implementation of Internet programming with special emphasis on the language Java. Both Web applets and stand-alone applications will be considered. Major topics include writing for graphical user interfaces, exception handling, multithreading, networking, and multimedia. Prerequisite: CIS 350.

CIS 401 (F, S) 3-8 hrs. cr.
Internship in Computer Information Science
A limited number of computer information science students may serve an internship of 15 to 20 hours per week for up to 16 weeks. Credit hours will be arranged through the coordinator of the internship program. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in programming and/or systems analysis and design to supplement course work. The on-site work will be supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Upper division standing, department approval, and an overall GPA of 3.00.

CIS 410 (F) 3 hrs. cr.
Information Systems II
Continued development of the ability to analyze and design computer-based information systems. Includes in-depth coverage of analysis and design methodologies, computer-aided software engineering tools, and project management techniques. Teamwork is emphasized. Prerequisite: Comp 302.

CIS 425 (S) 3 hrs. cr.
Database Management Systems
(Writing Intensive)
Survey of database management theories and experience in the application of database technology. An emphasis will be placed on the relational model. Functions of database management systems, data modeling, and database design are stressed. Prerequisite: Comp 234. Recommended: Comp 302.

CIS 430 (F, Odd) 3 hrs. cr.
Introduction to Artificial Intelligence
Introduces the process of developing intelligent computer software. AI topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning, and meta-programming. Prerequisites: CIS 350 and Math 300.

CIS 450 (F) 3 hrs. cr.
Operating Systems *(Writing Intensive)*
Fundamental concepts of operating system design. Emphasis on identifying problems an operating system must solve and considering the range of alternative solutions which may be implemented. Topics include process management, memory management, processor management, auxiliary storage management, and security. The UNIX operating system is highlighted. Prerequisite: CIS 350.

CIS 460 (Demand) 3 hrs. cr.
Programming Languages
Mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars, and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages will be examined with example programs to be written in each. Prerequisite: Two programming language courses.

CIS 498 (Demand) 1-3 hrs. cr.
Seminar in Computer Information Science
Addresses emerging topics in computer science and management information systems. Each offering will be on a subject not normally included in another course. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Other prerequisites may be specified in each course syllabus.

CIS 499 (Demand) 1-3 hrs. cr.
Independent Study
An independent study course is structured by the adviser with approval of the department head. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Registration in the course must be approved by the adviser, the department head, and the dean of the school.

Criminal Justice Administration

Justice Center 109, 625-9302

Faculty Terry - Director, Hulderman, Richards, Scott, Spencer, Spurlin, Wolf.

The Criminal Justice Administration department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement.

The Criminal Justice programs and activities are a vital part of the law enforcement effort in Missouri and adjacent states. The Regional Criminalistic Laboratory is housed in the Justice Center building and actual evidence is evaluated by criminalists who process the evidence and testify in court as expert witnesses. Also housed in the Justice Center is a complete photographic laboratory.

Missouri law requires new police officers to obtain "basic training" from a certified "law enforcement academy." Missouri Southern operates the regional academy for the State of Missouri. Many students choose to take their Basic Law Enforcement Academy Training at the Justice Center while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Justice Center building are generally impressed by the constant and diverse activities taking place in classrooms, laboratories, and hallways. College students mingle in classes

and on breaks with working law enforcement officers, paramedics, emergency medical technicians, fire fighters, and others from the community.

Another unique feature of the building is the modern indoor firearms range located in the basement. Police officers, students and others are introduced to a "live fire" range and state-of-the-art computer laser system for weapons training. Firearms training is conducted under the guidance of qualified range masters. While there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities which serves the community in a practical sense. This works to the benefit of the pre-service college student who is able to take advantage of the modern facilities and expertise of the highly qualified faculty. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Justice Center is a busy place where interested and motivated students work and learn with a competent and dedicated staff.

A bachelor's degree in criminal justice administration prepares the student for many different graduate programs such as law school. It also prepares the student for careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies and related positions. Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

The College also offers the associate of science in law enforcement, see page 194.

Bachelor of Science in Criminal Justice Administration

		Semester Hours
Core Requirements (p. 33)		**51**
Criminal Justice Requirements		**24**
LE 100	Introduction to Criminal Justice	3
LE 210	Criminal Procedures	3
LE 250	Criminal Law	3
LE 280	Interview and Report Writing (WI)	3
CJAd 432	Ethics In Criminal Justice	3
		15

Select one from the following:

CJAd 230	Introduction to Security	3
CJAd 325	Physical Security	3
CJAd 330	Loss Prevention Techniques	3
		3

Select one from the following:

CJAd 320	Probation and Parole	3
CJAd 412	Correctional Practices (WI)	3
		3

Select one from the following:

CJAd 410	Juvenile Procedures	3
CJAd 411	Juvenile Corrections (WI)	3
		3
		24

The student must also select a minimum of 26 credit hours from the following list of major course electives: (Students may not count classes that were selected in the above area.)

LE 110	Police Organization and Administration	2
LE 180	Basic Law Enforcement Academy*#	13
LE 181	Basic Law Enforcement Academy II*#	13
LE 190	First Responder	2
LE 200	Criminal Investigation I	3
LE 225	Patrol Procedures	3
LE 245	Law Enforcement Photography	3
LE 260	Legal & Technical Aspects of Firearms	3
LE 290	Police Supervision and Management	3
LE 298	Special Topics*	1-8
CJAd 210	Basic Photography	3
CJAd 230	Introduction to Security	3
CJAd 300	Criminal Investigation II (WI)	3
CJAd 301	International Justice Systems	3
CJAd 310	Traffic Accident Invest and Control	3
CJAd 320	Probation and Parole*	3
CJAd 325	Physical Security	3
CJAd 330	Loss Prevention Techniques	3
CJAd 331	Administration of Security Systems*	3
CJAd 350	Fish and Game Enforcement	3
CJAd 360	Professional Development	2
CJAd 390	Crime Analysis*	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections* (WI)	3
CJAd 412	Correctional Practices	3
CJAd 430	Family Violence	3
CJAd 440	Victims and the Criminal Justice System	3
CJAd 450	Criminal Evidence*	3
CJAd 490	Internship in Criminal Justice Administration*	4-8
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3
		23

*See course descriptions for prerequisites.
#Only 13 hours of the Basic Law Enforcement Academy will be applied to the 26 hour elective requirement.

General electives selected with adviser approval among which must be sufficient upper division courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper-division hours. A minor is highly recommended.

Electives	**30**
Total	**128**

Minor in Criminal Justice Administration

The minor consists of 21 hours of course work which includes: LE 100 Introduction to Criminal Justice, LE 210 Criminal Procedures, LE 250 Criminal Law and 12 additional hours of LE or CJAd courses, nine of which must be upper division.

Suggested Order of Study

Bachelor of Science Degree
Major Code 2105
Criminal Justice
Administration Major

Freshman Year
1st Semester

Course		Hours
LE 100	Intro. to Criminal Justice	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Eng 101 Comp I]	3
Computer Literacy Requirement		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 120 College Orient]	1
CORE	[Kine 101 Physical Activity]	1
		16

2nd Semester

LE 280	Interview and Report Writing	3
CORE	[Eng 102 Comp]	3
CJAd	Required course	3
Math 110	Intro College Math or higher	3
CORE	[Bio 101 General Biology]	4
		16

Sophomore Year

1st Semester

LE 210	Criminal Procedures	3
CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CJAd	Elective	3
CJAd	Required Course	3
		17

2nd Semester

LE 250	Criminal Law	3
CJAd	Required Course	3
Psy 100	[General Psychology]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective	[A minor is suggested]	3
CORE	[Literature]	3
		18

Junior Year

1st Semester

CJAd	Elective	3
CORE	Elective [International Stu]	3
Elective	[A minor is suggested]	3
CORE	[PSc 120 Gov't: U.S/Sta/Loc]	3
CORE	[Elective-Fine Art]	3
		15

2nd Semester

CJAd	Elective	3
CORE	[Fine Art]	3
Elective	[A minor is suggested]	3
CORE	[Hist 120 U.S. History]	3
Elective	[A minor is suggested]	3
		15

Senior Year

1st Semester

CJAd	Elective	3
CJAd	Elective	4
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
		16

2nd Semester

CJAd 432	Ethics in Criminal Justice	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
		15

[Department Recommendations]
All electives must be approved by a CJAd adviser prior to enrollment.

For additional information contact:
Criminal Justice Department
Mr. Robert Terry
Office: Justice Center 109
Phone: 625-9302
E-Mail: terry-r@mail.mssc.edu

Corrections

Justice Center 109, 625-9302

Faculty Terry - Head, Scott, Spencer, Gubera

A minor in Corrections is designed to prepare students who are seeking a career in the field of adult or juvenile corrections. Corrections offers students a variety of employment possibilities in local, state, and federal agencies. These employment opportunities include juvenile or adult probation and parole officer, pretrial or post-trial investigator, detention officer, corrections specialist, or corrections caseworker. Students majoring in criminal justice, psychology, or sociology who have a desire to work in the field of corrections will find this minor beneficial.

A minor in Corrections consists of 24 credit hours. Students must a have a faculty adviser for a minor in Corrections.

Minor in Corrections

		Semester Hours
LE 210	Criminal Procedures	3
CJAd 320	Probation and Parole	3
CJAd 411	Juvenile Corrections	3
CJAd 412	Correctional Practices	3
Soc 351	Criminology	3
Soc 362	Deviant Behavior	3
Soc 391	Penology and Corrections	3
Psy 221	Psychology of Personal Adjustment	3
		24

For additional information contact:
Mr. Robert Terry
Office: Justice Center 109
Phone: 625-9302
E-Mail: terry-r@mail.mssc.edu

Juvenile Justice

Justice Center 109, 625-9302

Faculty Terry - Head, Scott, Spencer, Gubera

A minor in Juvenile Justice is designed to prepare students who are seeking a career in the Juvenile Justice System. Adjudication and aftercare of the juvenile offender as well as child protection are the primary emphases of a minor in Juvenile Justice.

Students majoring in criminal justice, psychology, or sociology who have a desire to work in the Juvenile Justice system will find this minor beneficial. Juvenile officer, child abuse investigator, group home counselor, and court-appointed guardian ad litem are just a few of the employment options available to a graduate with a Juvenile Justice minor.

A minor in Juvenile Justice consists of 24 credit hours. Students must a have a faculty adviser for a minor in Juvenile Justice.

Minor in Juvenile Justice

		Semester Hours
LE 250	Criminal Law	3
CJAd 410	Juvenile Procedures	3
CJAd 411	Juvenile Corrections	3
CJAd 320	Probation and Parole	3
Soc 312	Juvenile Delinquency	3
Soc 406	Child Abuse	3
Psy 300	Child Development	3
Psy 301	Adolescent Psychology	3
		24

For additional information contact:
Mr. Robert Terry
Office: Justice Center 109
Phone: 625-9302
E-Mail: terry-r@mail.mssc.edu

Course Descriptions

CJAd 210 (F, S) 3 hrs. cr.
Basic Photography
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints. No credit if LE 245 has been completed. Lab fee and additional lab time arranged.

CJAd 230 (S) 3 hrs. cr.
Introduction to Security
Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

CJAd 298 (Demand) 1-8 hrs. cr.
Special Topics in Criminal Justice Administration
Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.

CJAd 300 (S) 3 hrs. cr.
Criminal Investigation II *(Writing Intensive)*
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses. Prerequisite: Eng. 102 or 111

CJAd 301 (F) 3 hrs. cr.
International Justice Systems
A study of justice systems around the world, comparing them to America's justice system. Course considers the three important components of a justice system; police, courts, and corrections. Includes cultural differences of the countries studied as they relate to their justice system.

CJAd 310 (F) 3 hrs. cr.
Traffic Accident Investigation and Control
Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting.

CJAd 320 (S) 3 hrs. cr.
Probation and Parole
Study of pre-sentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.

CJAd 325 (S) 3 hrs. cr.
Physical Security
Physical aspects of the security industry and its role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques.

CJAd 330 (F) 3 hrs. cr.
Loss Prevention Techniques
Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities.

CJAd 331 (Demand) 3 hrs. cr.
Administration of Security Systems
The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.

CJAd 350 (S) 3 hrs. cr.
Fish and Game Enforcement
Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

CJAd 360 (Demand) 2 hrs. cr.
Professional Development
Development of employability and career skills will be emphasized focusing on tools necessary for employment, communication skills, corporate etiquette, business dress, adjusting to the corporate environment and the professional image.

CJAd 390 (F) 3 hrs. cr.
Crime Analysis
A study of the patterns of crime. The course will emphasize the analysis of crime patterns and criminal behavior. The course will consider the identification of evolving or existent crime patterns and series crime, the forecasting of future crime occurrences and the initiation of target profile analysis. Prerequisites: Upperclass standing, LE 100 and LE 250 or permission.

CJAd 400 (Demand) 3 hrs. cr.
Homicide Investigation
Legal and criminalistic concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.

CJAd 410 (F) 3 hrs. cr.
Juvenile Procedures
Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.

CJAd 411 (S) 3 hrs. cr.
Juvenile Corrections *(Writing Intensive)*
Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110 and Eng 102 or 111.

CJAd 412 (F) 3 hrs. cr.
Correctional Practices *(Writing Intensive)*
History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 and Eng 102 or 111 or permission.

CJAd 430 (S) 3 hrs. cr.
Family Violence
Introduces the dynamics of family violence from the prospective of law enforcement. Examines the relationships between victims, offenders and other family members. Focuses on these relationships and the challenge they pose to the criminal justice system. Special attention on the complicated justice system which is increasingly intervening in these family systems.

CJAd 432 (S) 3 hrs. cr.
Ethics in Criminal Justice
A comprehensive investigation of ethical problems confronting criminal justice professionals. Focus is placed on the philosophical and practical dilemmas surrounding the modern criminal justice system, in the United States and foreign countries, to include the police, courts, and correctional subsystems. Examines various value systems and historical theories as well as promote discussions of moral and ethical behavior from personal, social, and criminal justice perspectives. Prerequisites: Upperclass standing, LE 100 and LE 210 or permission.

CJAd 440 (F) 3 hrs. cr.
Victims and the Criminal Justice System
Introduces the study of victimization. Examines the relationship between victims and the criminal justice system.

CJAd 450 (S) 3 hrs. cr.
Criminal Evidence
Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250 or permission.

CJAd 490 (Arr) 4-8 hrs. cr.
Internship in Criminal Justice
Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 2.5 and a CJAd GPA 3.2.

CJAd 498 (Demand) 1-3 hrs. cr.
Seminar in Criminal Justice
A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.

CJAd 499 (Arr) 1-3 hrs. cr.
Independent Study in Criminal Justice
Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.

Dental Hygiene

Ummel Technology Building 101, 625-9709

Faculty Scorse DeTar - Director, Karst, Strait, White

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information; performing head and neck examinations; periodontal assessment and therapy; applying agents for the prevention of decay; applying desensitizing and antimicrobial agents and administering local anesthesia and nitrous oxide analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients prevention of dental disease and providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; long-term care facilities; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene. Applications are reviewed by the Selection Committee for Dental Hygiene. Applicants must submit the necessary information by January 31. Applicants must have an overall GPA of 2.75 to apply, or a GPA of 2.50 with an ACT composite score of 25 or better.

Evidence of satisfactory completion of the following prerequisites with a "C" or better must be presented:

Bio 121	General Zoology
Eng 101	English Composition
Math 030	Intermediate Algebra (or higher)
Chem 100	Introductory Chemistry
Bio 231	General & Medical Microbiology
Bio 221	Human Physiology& Anatomy
Comm 100	Oral Communications
Kine 103	Lifetime Wellness

Enrollment is limited and applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: $1000 for uniforms, safety glasses, books, graduation pins, ADHA student membership dues, liability insurance, and various expenses for transportation to off campus clinical sites and professional meetings; approximately $600 for licensure exams which will vary depending on state(s) in which license is desired; approximately $1400 for student instrument kit and supplies.

The associate of science in dental hygiene requires a minimum of 89 credit hours, including the prerequisite courses. All courses in the Suggested Order of Study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program. (The successful dental hygiene applicants tend to be the ones who have completed the majority or all of the science and Core Curriculum courses with the exception of the dental hygiene courses.)

Associate of Science Degree in Dental Hygiene

		Semester Hours
Core Requirements (p. 35)		**25**
Dental Hygiene Requirements		**64**
DH 101	Fundamentals of Dental Hygiene I	4
DH 102	Fundamentals of Dental Hygiene II*	4
DH 140	Dental Morphology	1
DH 150	Oral Histology and Embryology	3
DH 160	Dental Radiology	2
DH 190	Clinical Dental Hygiene I*	2
DH 200	Dental Health Education	3
DH 210	Perio-Pathology	4
DH 220	Dental Materials	3
DH 290	Clinical Dental Hygiene II*	5
DH 310	Nutrition	2
DH 320	Pharmacology	2
DH 330	Ethics and Community Dentistry*	3
DH 390	Clinical Dental Hygiene III*	5
Bio 231	Medical Microbiology*	5
Bio 240	Radiation Biology*	3
Bio 221	Human Physiology and Anatomy*	5
Chem 100	Introductory Chemistry*	5
Soc 110	Intro to Sociology	3
Psy 100	General Psychology (CORE)	
		89

*See course descriptions for prerequisites

Suggested Order of Study

Associate of Science - over three years
Major Code 5203
Dental Hygiene Major

Fall Semester	**Prerequisites**	**Hours**
Bio 121	General Zoology	4
CORE	[Eng 101 Comp I]	3
Math 030	Inter Algebra (or higher)	3
Chem 100	Intro Chemistry (w/lab)	5
		15

Spring Semester	**Prerequisites**	
Bio 231	Gen & Med Microbio (w/lab)	5
Bio 221	Human Phys & Anatomy	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 103 Lifetime Wellness]	2
		15

Fall Semester	1st Year Dental Hygiene	
DH 101	Fund of Dental Hygiene I	4
DH 140	Dental Morphology	1
DH 150	Oral Histology & Embr	3
Psy 100	General Psychology	3
CORE	[Kine 101 Physical Activity]	1
CORE	[PSc 120 or MO Const Test]*	3
		12-15

Spring Semester	1st Year Dental Hygiene	
DH 102	Fund of Dental Hygiene II	4
DH 160	Dental Radiology	2
DH 220	Dental Materials	3
DH 310	Nutrition	2
Bio 240	Radiation Biology	3
		14

Summer Session	1st Year Dental Hygiene	
DH 190	Clinical Dental Hygiene I	2
DH 210	Perio-Pathology	4
		6

Fall Semester	2nd Year Dental Hygiene	
DH 200	Dental Health Education	3
DH 290	Clinical Dental Hygiene II	5
DH 320	Pharmacology	2
CORE	[Hist 110 or 120]	3
		13

Spring Semester	2nd Year Dental Hygiene	
DH 330	Ethics & Comm Dentistry	3
DH 390	Clinical Dental Hygiene III	5
CORE	[Humanities or Fine Arts]	3
Soc 110	Intro to Sociology	3
		14

*12 hours if Missouri Constitution Test is passed. [Department Recommendation]

For additional information contact:
Sandra A. Scorse DeTar, D.D.S.
Office: Technology Building 111-E
Phone: 625-9379 / 625-9600 / 625-9711
E-Mail: scorse-s@mail.mssc.edu

Course Descriptions

DH 101 (F) 4 hrs. cr.
Fundamentals of Dental Hygiene I
Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

DH 102 (S) 4 hrs. cr.
Fundamentals of Dental Hygiene II
Continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

DH 140 (F) 1 hr. cr.
Dental Morphology
Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

DH 150 (F) 3 hrs. cr.
Oral Histology and Embryology
Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

DH 160 (S) 2 hrs. cr.
Dental Radiology
Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

DH 190 (Summer) 2 hrs. cr.
Clinical Dental Hygiene I
Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, periodontal assessment, exposing and processing radiographs, presenting patient education, preventive applications, and charting the oral cavity. 16 hours lab per week, 1 hour of lab will be used per week in clinical DH I for content and organizational review of course. Prerequisite: DH 102 with minimum grade of "C" and CPR Certification course C.

DH 200 (F) 3 hrs. cr.
Dental Health Education
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

DH 210 (Summer) 4 hrs. cr.
Perio-Pathology
Lecture periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, assessment, treatment and prevention of periodontal disease is stressed. Four hrs. lecture per week.

DH 220 (S) 3 hrs. cr.
Dental Materials
Information about various dental materials. Students learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene I with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

DH 290 (F) 5 hrs. cr.
Clinical Dental Hygiene II/Local Anthesia
Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

DH 310 (S) 2 hrs. cr.
Nutrition
Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

DH 320 (F) 2 hrs. cr.
Pharmacology
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

DH 330 (S) 3 hrs. cr.
Ethics and Community Dentistry
Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federal, state and local health programs; needs and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

DH 390 (S) 5 hrs. cr.
Clinical Dental Hygiene III
Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

Law Enforcement

Justice Center 109, 625-9302

Faculty Terry - Head, Hulderman, Richards, Scott, Spencer, Spurlin, Wolf

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state, and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. See page 188.

Associate of Science in Law Enforcement

Option A
Major Code 5505

		Semester Hours
Core Requirements (p. 35)		**26**
Law Enforcement Requirements		**39**
Computer Literacy Requirement		**3**
LE 100	Introduction to Criminal Justice Administration	3
LE 110	Police Organization and Administration	2
LE 190	First Responder	2
LE 200	Criminal Investigation I	3
LE 210	Criminal Procedures	3
LE 245	Law Enforcement Photography	3
LE 250	Criminal Law	3
LE 260	Legal and Technical Aspects of Firearms	3
LE 280	Interview and Report Writing (WI)	3
LE 290	Police Supervision and Management	3
Elective	Adviser approved Electives	8
		65

Option B
(For Basic Law Enforcement Academy)
Major Code 5506

		Semester Hours
Core Requirements (p. 35)		**26**
Law Enforcement Requirements		**39**
Computer Literacy Requirement		**3**
LE 100	Introduction to Criminal Justice	3
LE 180	Basic Law Enforcement Academy	13
LE 181	Basic Law Enforcement Academy II	13
LE 245	Law Enforcement Photography	3
LE 280	Interview and Report Writing (WI)	3
LE 290	Police Supervision and Management	3
		65

Suggested Order of Study

Associate of Science Degree
Major Code 5505
Law Enforcement Major

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Intro to College Math]	3
Comp 105	Intro to Micro Comp Use	3
LE 100	Intro to Criminal Justice	3
LE 110	Police Org & Adm	2
CORE	[Psy 120 College Orient]	1
CORE	[Kine 101 Physical Activity]	1
		16

2nd Semester

Elective		2
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
LE 280	Interview & Rprt Wrtng (WI)	3
LE 210	Criminal Procedures	3
		16

Sophomore Year
1st Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Hist 110 or 120]	3
LE 200	Criminal Investigation I	3
LE 260	Legal & Tech Asp of Firearms	3
Elective	Fine Arts Elective	3
		17

2nd Semester

LE 245	Law Enforcement Photo	3
LE 190	First Responder	2
LE 250	Criminal Law	3
LE 290	Police Supervision & Mgmt	3
Electives Adviser Approved		5
		16

[Department Recommendations]

For additional information contact:
Criminal Justice Department
Mr. Robert Terry
Office: Justice Center 109
Phone: 625-9302
E-Mail: terry-r@mail.mssc.edu

Suggested Order of Study

Associate of Science Degree
Major Code 5506
Law Enforcement Major
(Law Enforcement Academy)

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp]	3
CORE	[Intro to College Math]	3
Comp 105	Intro to Micro Comp Use	3
LE 100	Intro to Criminal Justice	3
CORE	[Psy 120 College Orientation]	1
CORE	[Kine 101 Physical Activity	1
		14

2nd Semester

CORE	[Bio 101 General Biology]	4
CORE	[Soc 110 Intro to Sociology]	3
LE 280	Interview & Report Writing	3
CORE	Humanities and Fine Arts	3
		13

Sophomore Year
1st Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Hist 110 or 120]	3
LE 290	Police Supervision & Mgmt	3
LE 245	Law Enforcement Photo	3
		14

2nd Semester

LE 180	Basic Law Enforc Acad I	13
LE 181	Basic Law Enforc Acad II	13
		26

[Department Recommendations]

For additional information contact:
Criminal Justice Department
Mr. Robert Terry
Office: Justice Center 109
Phone: (417) 625-9302
Fax: (417) 625-9796
E-Mail: terry-r@mail.mssc.edu

Course Descriptions

LE 100 (F, S) 3 hrs. cr.
Introduction to Criminal Justice Administration
Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of criminal justice.

LE 110 (F) 2 hrs. cr.
Police Organization and Administration
Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

LE 180 (F, S) 13 hrs. cr.
Basic Law Enforcement Academy
The pre-certification training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Peace Officer Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes Missouri Criminal Law, traffic law, criminal investigation, reports, defensive tactics, firearms, legal subjects and human relations. The topics are designed and required by P.O.S.T. under Section 590.100 et. seq. RSMo. Prerequisites: Permission of Training Director. (Additional lab fee for course.)

LE 181 (F, S) 13 hrs. cr.
Basic Law Enforcement Academy II
The pre-certification training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Peace Officer Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes Missouri Criminal Law, traffic law, criminal investigation, reports, defensive tactics, firearms, legal subjects and human relations. The topics are designed and required by P.O.S.T. under Section 590.100 et. seq. RSMo. Prerequisites: Permission of Training Director and LE 180 (Additional lab fee for course.)

LE 190 (F, S) 2 hrs. cr.
First Responder
Provides basic emergency care knowledge and skills to the student. Designed to prepare students to recognize traumatic injuries, and deliver quality emergency medical care to victims.

LE 200 (F) 3 hrs. cr.
Criminal Investigation I
Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

LE 210 (F, S) 3 hrs. cr.
Criminal Procedures
Criminal law procedures from arrest through trial, search and seizure, review of pertinent supreme court decisions and related topics. The order of criminal trial.

LE 225 (S) 3 hrs. cr.
Patrol Procedures
Covers numerous areas confronting todays law enforcement officer during tours of duty and the proper techniques and procedures used in handling each area.

LE 245 (F, S) 3 hrs. cr.
Law Enforcement Photography
Designed to instruct the law enforcement student in the fundamentals of photography, as it relates to documentation and investigation of crime scene evidence. No credit if CJAd 210 has been completed. Lab fee and additional lab time arranged.

LE 250 (S) 3 hrs. cr.
Criminal Law
Criminal law purposes and functions; rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

LE 260 (F, S) 3 hrs. cr.
Legal and Technical Aspects of Firearms
History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership and use. Three hrs. lecture per week. Lab fee and additional lab time arranged.

LE 280 (F, S) 3 hrs. cr.
Interview and Report Writing
(Writing Intensive)
Introduces various methods and styles of report writing and professional communication in the criminal justice field together with the use of the basic report forms and follow-up reports. It also examines techniques of interviewing and writing the report. Perquisites: Eng 101.

LE 290 (S) 3 hrs. cr.
Police Supervision and Management
Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

LE 298 (Demand) 1-8 hrs. cr.
Special Topics in Law Enforcement
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

Missouri Peace Officer Certification

The 600-hour Missouri Peace Officer Certification is offered through Criminal Justice Administration (CJAd) and the Missouri POST (Peace Officer Standards & Training) Certified Law Enforcement Academy. Students who successfully complete the Academy and meet certification requirements become eligible for employment as a Missouri peace officer. Refer to the Law Enforcement section for course description.

Application/Admission/ Certification

Applicants must be at least 18 years of age to begin class, but the State of Missouri requires applicants at the time of certification to be 21 years of age, a United States citizen, and have a high school diploma or its equivalent. An applicant with a criminal history must receive Missouri POST clearance before being accepted to the program. An interview with the Training Coordinator is required for admittance to the program.

For further information contact:
The Law Enforcement Academy
Mr. Michael Hulderman
Missouri Southern State College
3950 E. Newman Road
Joplin, Missouri 64801-1595
Phone: (417) 625-9519
Fax: (417) 625-9519
E-Mail: hulderman-m@mail.mssc.edu

Medical Technology

Reynolds Hall 210, 625-9376

Faculty Garoutte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this

degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; and Lester E. Cox Medical Center, Springfield, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date. It is strongly suggested that the student contact the Director of the Medical Technology Program at the desired hospital early in their sophomore year to determine the exact application procedure.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students. The weekly time requirements for the professional medical technology courses *(400 level)* listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

Students whose career goals change or are unsuccessful in gaining admission to a professional training program are ideally suited to complete another science major with virtually no loss of academic credits.

Bachelor of Science With a Major in Medical Technology

		Semester Hours
Core Requirements (p. 33) 51**		**39**
Biology Requirements		**26**
Bio 121	General Zoology	4
Bio 231	General & Medical Microbiology*	5
Bio 305	Genetics*	4
Bio 221	Human Physiology and Anatomy*	5
Bio 456	Immunology*	4
Either		
Bio 361	Parasitology*	4
OR		
Bio 362	Virology*	4
Chemistry Requirement		**24-25**
Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300	Introduction to Modern Organic Chemistry*	5
Chem 351	Biochemistry*** (4)	
OR		
Chem 421	Analytical Chemistry II* (5)	4-5
Other Requirements		**17**
Phys 151	Elementary College Physics I*	5
Phys 152	Elementary College Physics II*	4
Math 140	Algebra & Trigonometry	5
Comp 110	Programming I (Pascal) (3)	
OR		
Higher level computer course		3
400 Level Medical Technology Courses (at Hospital)		**32**
		138-139

*See course descriptions for prerequisites.
**Required biology, physics and mathematics courses simultaneously satisfy Core Curriculum and major requirements.

Suggested Order of Study

Bachelor of Science Degree
Major Code 1223
Medical Technology Major

Freshman Year
1st Semester

Course		Hours
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 140	Algebra and Trig	5
CORE	[Eng 101 Comp I]	3
Comp 110	Programming I	3
CORE	[Psy 120 College Orient]	1
		17

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Bio 121	General Zoology	4
CORE	[History 110 U.S. History]	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 180 Amer Econ Sys]	3
		18

Sophomore Year
1st Semester

Chem 201	Analy Chem I (Chem 102)	5
Bio 231	Gen & Med Microbiology	5
CORE	[Psy 100 or Soc 110]	3
CORE	[Humanities & Fine Arts]	3
CORE	[Kine 101 Physical Activity]	1
Elective	[MT 200 Intro to Med Tech]	1
		18

2nd Semester

Chem 300	Mod Org Chem (Chem 102)	5
Bio 305	Genetics	4
CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities & Fine Arts]	3
CORE	[Hist 120 or 320 U.S. History]	3
		18

Junior Year
1st Semester

Phys 151	Elem Col Phys I (Math 140)	5
Bio 221	Hum Anat & Phys (Bio 121)	5
Bio 361	Parasitology (Bio 121)	
OR		
Bio 362	Virology (Bio 231)	4
CORE	[Kine 103 Lifetime Wellness]	2
CORE	[Humanities & Fine Arts]	3
		19

2nd Semester

Chem 421	Analy Chem II (Chem 201)	
OR		
Chem 351	Biochemistry (Chem 300)	4-5
Phys 152	Elem Col Phys II (Phys 151)	4
Bio 456	Immunology	4
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[International Cultural Studies]	3
		18-19

Senior Year
1st Semester
(At an approved School of Medical Technology)

MT 401	Clinical Chemistry	10
MT 403	Hematology	6
		16

2nd Semester
(At an approved School of Medical Technology)

MT 402	Clinical Microscopy	1
MT 404	Serology	3
MT 405	Clinical Microbiology	7
MT 406	Immunohematology	3
MT 407	Special Topics in Med Tech	2
		16

(Prerequisites)
[Department Recommendations]

For additional information contact:
Dr. Melvyn Mosher
Office: Reynolds Hall 242
Phone: 625-9733
E-Mail: mosher-m@mail.mssc.edu
OR
Dr. Michael Garoutte
Office: Reynolds Hall 241
Phone: 625-9579
E-Mail: garoutte-m@mail.mssc.edu

Course Descriptions

MT 401 (F) 10 hrs. cr.
Clinical Chemistry
Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

MT 402 (S) 1 hr. cr.
Clinical Microscopy
Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

MT 403 (F) 6 hrs. cr.
Hematology
The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 404 (S) 3 hrs. cr.
Serology-Immunology
The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 405 (S) 7 hrs. cr.
Clinical Microbiology
Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

MT 406 (S) 3 hrs. cr.
Blood Bank-Immunohematology
Blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

MT 407 (S) 2 hrs. cr.
Special Topics in Medical Technology
Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

Nursing

Kuhn Hall 210, 625-9322

Faculty Box - Head, Ayton, Eller, Houser, McGonigle

The bachelor of science degree nursing program provides intensive preparation for the first-time entering student and licensed practical nurse seeking licensure as a registered nurse and the registered nurse pursuing baccalaureate education in the nursing discipline.

The program is based on systems emphasizing person, nursing, health and environment. Core Curriculum and required support courses augment the nursing courses in preparing a professional nurse for the 21st century who is able to function at the client's side in a diverse health care delivery system.

Upon successful completion of the program, the graduate is eligible to apply to take the examination for licensure as a Registered Nurse (RN) barring restrictions stated in the Nursing Practice Act 335.066,1,2 (1)-(14) of the state of Missouri. "The applicant shall be at least nineteen years of age . . ." according to the Nursing Practice Act 335.046 of the Missouri Statutes. Contact nursing department or State Board of Nursing for further information.

The program is accredited by the National League for Nursing Accrediting Commission and the Missouri State Board of Nursing.

Graduate outcomes

Upon completion of the program the graduate will:

- Apply the Neuman systems model in the promotion of the person's optimal systems stability.
- Promote health by empowering the person through health education.
- Provide contemporary health care through application of the nursing process.
- Practice within the professional standards of care.
- Use current technologies in providing culturally sensitive care through primary, secondary, and tertiary prevention.
- Manage health care delivery through coordination, collaboration and delegation.
- Integrate communication strategies in interacting with the person and information systems.
- Apply nursing and health related research to nursing practice.

Admission Criteria

1. Continuous enrollment, readmission or admission to College as a transfer student.
2. Cumulative grade point average of 2.5 minimum based upon completion of freshman and sophomore courses listed in the Suggested Order of Study.
3. Completion of the following four natural and physical science courses with a grade of "C" or higher:
   Bio 121 Intro to Human Biology
   Bio 221 Human Anatomy and Physiology
   Bio 231 General and Medical Microbiology
   Chem 100 Introductory Chemistry
4. Criminal Record Check
5. Minimum of 20th percentile score on the Nelson Denny Reading Examination.
6. Credit hours from the Suggested Order of Study must be completed prior to entering the nursing major courses.

Admission to the program is competitive.

Applications, readmission and transfer criteria are available in the department of nursing in Kuhn Hall. Application deadline is **January 31**.

The applicant is responsible for requesting and verifying that the transcript evaluation and MSSC transcript are part of their applicant profile prior to application deadline.

Students who meet all admission criteria and have completed the Suggested Order of Study for the bachelor of science degree in nursing at Missouri Southern State College will be given preference in admission.

Missouri House Bill 1362 prohibits a hospital from knowingly allowing those guilty of Class A and B felonies as defined in three chapters of state law to give care to clients in their agency. Students entering MSSC are assigned to do clinical practice in cooperating hospitals and the department is in agreement that students must meet these requirements. Results of a personal criminal history record check must be on file prior to the Fall sesmester of the junior year of nursing courses. Students who have been found guilty of Class A and B felonies will be ineligible to enter the program.

Admission of Baccalaureate Degree applicants

Applicants holding a baccalaureate degree are considered by the College as having completed the Core Curriculum requirements.

Degreed nursing applicants must meet all stated admission requirements.

The cumulative grade point average will apply for degreed nursing applicants.

Required support courses for admission into the nursing major are as follows:

Bio 121	Introduction to Human Biology	4
Bio 221	Human Anatomy and Physiology	5
Bio 231	General and Medical Microbiology	5
Bio 308	Pathophysiology	4
Kine 385	Nutrition for Human Development	3
Total		**21**

Admission of Registered Nurses (RN)

Registered nurses are admitted to the College as graduates of Southern's ADN Program or as transfer students. In addition to the Program admission requirements, registered nurses must also meet the following requirements:

1. Graduation from a state-approved and National League for Nursing (NLN) accredited Associate Degree or Diploma nursing program.

2. Current registered nurse licensure or eligibility in the state of Missouri.

3. The registered nurse has the option to challenge 25 credit hours of junior level nursing major requirements by successfully passing the NLN Mobility Profile II examination and Departmental Validation Examination. A minimum decision score of 80 on the NLN Mobility Profile II Examination Books 1, 2, and 3 and 75 percent on the Departmental Validation Examination is required.

   Nurs 400 Complex Nursing, a senior level course, may be challenged by passing the NLN Nursing Care of Adults Part III with a 50 percentile thus granting 6 credit hours for a total of 31 credit hours.

Admission of Licensed Practical Nurses (LPN)

Licensed Practical Nurses (LPN) are admitted to the College as first-time (generic) or transfer students. LPN applicants must meet all college and program requirements for admission. The LPN has the option to challenge 5 credit hours for Nurs 310 Health Assessment and Technologies through departmental examination.

Special Fees

In addition to all established fees for college students, a special laboratory fee of $100.00 is assessed for each of the following courses:

Nurs 310 Health Assessment and Technologies
Nurs 430 Advanced Health Assessment

Other costs incurred during the program include, but are not limited to: required equipped nurse bag (approximately $185), uniforms, pins, standardized examination fees, graduation fees, licensing examination fees, hepatitis series, etc. A detailed list of items and costs is available in the Nursing Department.

Bachelor of Science Degree in Nursing

		Semester Hours
Core Requirements (p. 33)		**51**
Nursing Major Requirements		**83**
(See course descriptions for prerequisites)		
Nurs 300	Concepts of Professional Nursing (WI)	3
Nurs 310	Health Assessment and Technologies	5
Nurs 320	Adult Nursing	7
Nurs 350	Family Nursing	9
Nurs 360	Mental Health Nursing	4
Nurs 370	Gerontic Nursing	3
Nurs 400	Complex Nursing	6
Nurs 420	Nursing Ethics (WI)	3
Nurs 430	Advanced Health Assessment	3
Nurs 450	Community Health Nursing	5
Nurs 460	Nursing Research (WI)	3
Nurs 470	Nursing Management and Leadership	5
Nurs 480	Issues in Nursing	2
Bio 121	Introduction to Human Biology	4
Bio 221	Human Anatomy and Physiology*	5
Bio 231	General and Medical Microbiology	5
Bio 308	Pathophysiology	4
Chem 100	Introductory to Chemistry*	5
Comp 105	Introduction to Microcomputers	3
Kine 385	Nutrition for Human Development	3
Psy 320	Statistics	3

* Satisfies the Core requirement for Area 3 Natural Science and Behavioral Science

Suggested Order of Study

Bachelor of Science Nursing - Four Year

Freshman Year
Fall Semester

Course		Hours
Bio 121	Intro to Human Biology	4
Eng 101	English Comp I (WI)	3
Math 130	College Algebra	3
Comm 100	Oral Communication	3
Kine 103	Lifetime Wellness	2
Comp 105	Intro to Microcomputers@	3
Psy 120	College Orientation	1
		19

Freshman Year
Spring Semester

Bio 221	Human Anatomy & Phys*	5
Eng 102	English Comp II (WI)	3
Chem 100	Intro to Chemistry*	5
Econ 180	Amer Econ System	3
Psy 100	General Psychology	3
		19

Sophomore Year
Fall Semester

Bio 231	General and Medical Microbiology*	5
CORE	Area 2.a (Fine Art)	3
CORE	Area 2.b (Literature)	3
Kine 385	Nutrition for Human Development	3
Hist 110	U.S. History 1492-1877	3
		17

Sophomore Year
Spring Semester

Bio 308	Pathophysiology*	4
CORE	Area 2.c (Fine Art or Literature)	3
CORE	Area 5 (International Culture Studies	3
PSc 120	Gov't: U.S., St, Local	3
Kine 101	Physical Activity	1
Hist 120	U.S. Hist 1877 - Pres	3
		17

Junior Year
Fall Semester

Nurs 300	Concepts of Professional Nursing (WI)	3
Nurs 310	Health Assessment and Technologies+^	5
Nurs 320	Adult Nursing+	7
		15

Junior Year
Spring Semester

Nurs 350	Family Nursing+	9
Nurs 360	Mental Health Nursing+	4
Nurs 370	Gerontic Nursing	3
		16

Senior Year
Fall Semester

Nurs 400	Complex Nursing*#	6
Nurs 420	Nursing Ethics (WI)	3
Nurs 430	Adv Health Assessment	3
Psy 320	Statistics*	3
		15

Senior Year
Spring Semester

Nurs 450	Community Health Nursing	5
Nurs 460	Nursing Research (WI)	3
Nurs 470	Nursing Mgmt & Leadership	5
Nurs 480	Issues in Nursing	2
		15

*See course descriptions for prerequisites.
+Credits by examination, NLN Mobility Profile II for Registered Nurses.
@Department waiver as outlined in Nursing Student Handbook.
^Credit by departmental examination for Licensed Practical Nurses.
#Credit by departmental examination for Registered Nurses.

Minors

Minors in supportive disciplines are available to nursing students. See requirements for the following suggested (but not exclusive) minors.

Informatics p. 182
Business p. 133
Spanish p. 83

Americans with Disabilities Act implications

Students will be required to have completed a physical examination/health verification after admission to the nursing program. Students will be required to demonstrate physical and/or emotional fitness to meet the essential requirements of each course in the program. Such essential requirements include freedom from communicable diseases, the ability to perform certain physical tasks and suitable emotional fitness. Any appraisal measures used to determine such physical and/or emotional fitness will be in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Core performance standards for admission and progression which comply with the Americans with Disabilities Act of 1990 are available in the office of the Department of Nursing.

For additional information contact:
Dr. Barbara Box
Office: Kuhn Hall 210-B
Phone: 625-9322
E-Mail: box-b@mail.mssc.edu

Course Descriptions

Nurs 300 (F) 3 hrs cr.
Concepts of Professional Nursing
(Writing Intensive)
Focuses on knowledge needed to assume the roles of the professional nurse as provider of care, teacher, communicator and contributor to the discipline of nursing. The course is structured to provide an opportunity for the socialization of the learner to professional nursing practice. Three hrs. lecture per week. Prerequisite: Admission to the nursing program and concurrent with Nurs 310 and Nurs 320.

Nurs 310 (F) 5 hrs cr.
Health Assessment and Technologies
Incorporates a systematic approach to basic health assessment and application of basic nursing interventions for the person with limited variances in health. Three hrs. lecture and 6 hrs. lab per week. Prerequisite: Admission to the nursing program and concurrent with Nurs 300 and Nurs 320.

Nurs 320 (F) 7 hrs cr.
Adult Nursing
Focuses on variances in health of adults with common health problems. Emphasis is on application of the nursing process in secondary prevention. Four hrs. lecture and 9 hrs. clinical per week. Prerequisite: Admission to the nursing program and concurrent with Nurs 300 and Nurs 310.

Nurs 350 (S) 9 hrs cr.
Family Nursing
Focuses on health promotion of the developing family and nursing care of the maternity and pediatric client with variances of health. Five hrs. lecture and 12 hrs. clinical per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C" and concurrent with Nurs 360 and Nurs 370.

Nurs 360 (S) 4 hrs cr.
Mental Health Nursing
Focuses on assessment, promotion of mental health and care of the person with variances in mental health. Use of therapeutic communication and the nurse-client relationship are emphasized. Two hrs. lecture and 6 hrs. of clinical per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C" and concurrent with Nurs 350 and Nurs 370.

Nurs 370 (S) 3 hrs cr.
Gerontic Nursing
Focuses on the normal aging process and common health variances of the older person. Three hrs. lecture per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C" and concurrent with Nurs 350 and Nurs 360 or RN status with permission of instructor.

Nurs 400 (F) 6 hrs cr.
Complex Nursing
Focuses on the nursing care of persons with complex variances in health in acute care and rehabilitation settings. Two hrs. lecture and 12 hrs of clinical per week. Prerequisites: Nurs 350, Nurs 360 and Nurs 370 with a minimum grade of "C" and concurrent with Nurs 420 and Nurs 430.

Nurs 420 (F) 3 hrs cr.
Nursing Ethics *(Writing Intensive)*
Focuses on the process of ethical decision making. Ethical issues confronting the professional nurse are explored. Three hrs. lecture per week. Prerequisites: Nurs 350, Nurs 360 and Nurs 370 with a minimum grade of "C" and concurrent with Nurs 400 and Nurs 430.

Nurs 430 (F) 3 hrs cr.
Advanced Health Assessment
The emphasis of advanced health assessment will be refining abilities to utilize techniquest to assess, identify and describe variances from normal. Two hrs. lecture and 3 hrs. of lab per week. Prerequisites: Nurs 350, Nurs 360 and Nurs 370 with a minimum grade of "C" and concurrent with Nurs 400 and Nurs 420.

Nurs 450 (S) 5 hrs cr.
Community Health Nursing
Concepts and methods for assessment of community strengths and health needs will be analyzed to improve the overall health status of the person and aggregates. Three hrs. of lecture and 6 hrs. of clinical. Prerequisites: Nurs 400, Nurs 420 and Nurs 430 with a minimum grade of "C" and concurrent with Nurs 460, Nurs 470 and Nurs 480.

Nurs 460 (S) 3 hrs cr.
Nursing Research *(Writing Intensive)*
Emphasizes evaluation of nursing research, utilization of research findings in the clinical setting and assisting in the conduct of research. Three hrs. of lecture per week. Prerequisites: Psy 320, Nurs 400, Nurs 420 and Nurs 430 with a minimum grade of "C" and concurrent with Nurs 450, Nurs 470 and Nurs 480.

Nurs 470 (S) 5 hrs cr.
Nursing Management and Leadership
Emphasis is on nursing management and organization, nursing leadership skills and resource allocation. Three hrs. lecture and 6 hrs. clinical per week. Prerequisites: Nurs 400, Nurs 420 and Nurs 430 with a minimum grade of "C" and concurrent with Nurs 450, Nurs 460 and Nurs 480.

Nurs 480 (S) 2 hrs cr.
Issues in Nursing
Investigates current trends and issues in nursing on the local, national and international scene. Two hrs. lecture per week. Prerequisites: Nurs 400, Nurs 420, and Nurs 430 with a minimum grade of "C" and concurrent with Nurs 450, Nurs 460 and Nurs 470.

Nurs 498 (Demand) 1-3 hrs cr.
Seminar in Nursing
Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Nurs 499 (Demand) 1-3 hrs cr.
Independent Study
Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

Paramedic

Justice Center 114, 625-3020

Major Code 7008
Faculty Krtek

The School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of EMS programs for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

Associate of Arts

Core Requirements		**42**
Bio 221	Human Physiology and Anatomy*	5
EMT Course		6
EMT-P Course		18
		71

*Satisfies Core requirements

Course Descriptions

Para 298 (Demand) 18 hrs. cr.
EMT-P (Paramedic)
Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current Missouri State EMT ambulance license. A minimum of one year experience is preferred. Out-of-state students should contact the E.M.S. Training office no later than May to begin reciprocity application. Applications and pretest information should be obtained from the office before th end of the Spring semester. Special book and equipment fees are assessed for this course.

For additional information contact:
Michael Krtek
Office: Justice Center 114
Phone: 625-3020
Visit our web site at: http//www.mssc.edu/schtech/ems/home.htm

Pre-Engineering

Reynolds Hall 213/243, 625-9616/625-9615

Faculty Chelf, Knapp, Sloan

The physical science department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a copy of the booklet should contact the physical science department.

		Semester Hours
Core Requirements (p. 33)**		**25**
Pre-engineering Requirements		**48**
Phys 160	General Physics I*	3

Phys 270	General Physics II*	5
Phys 280	General Physics III*	5
Phys 312	Statics*	3
Chem 101	General Chemistry I*	5
Math 150	Calculus with Analytical Geometry I*	5
Math 250	Calculus with Analytical Geometry II*	5
Math 260	Calculus with Analytical Geometry III*	5
Comp 110	Programming I	3
Econ 201	Principles of Economics (Macro)	3
Elective	(Math or Physics)***	3
Elective	(Humanities/Social Science/ Drafting/Chemistry)***	3
		73

*See course descriptions for prerequisites.
**Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.
***The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

Suggested Order of Study

Associate of Science Degree
Major Code 5499
Pre-engineering Major

Freshman Year
1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
Phys 160	General Physics I	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orient]	1
CORE	[Kine 101 Physical Activity]	1
		18

2nd Semester

Math 250	Calculus II	5
Phys 270	General Physics II	5
Econ 201	Prin of Economics	3
CORE	[Fine Arts/Draft/Chem II]*	3-5
		16-18

Sophomore Year
1st Semester

Math 260	Calculus III	5
Phys 280	General Physics III	5
Comp 110	Programming I	3
CORE	[Sociology or Psychology]*	3
CORE	[Kine 103 Lifetime Wellness]	2
		18

2nd Semester

Math 322	Differential Eq.	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics (4)	
OR		
Phys 322	Classical Mechanic (3)	3-4
CORE	[Comm 100 Oral Comm]*	
AND/OR		
CORE	[Humanities/Fine Arts]	3-6
		16-17

Summer Session

Phys 312 Statics		3
CORE	[Hist 110/120 U.S. Hist]	3
		6

*Suggested elective (not strict requirements)

For additional information contact:
Dr. Russell Phillips
Office: Reynolds Hall 208
Phone: 625-9719
E-Mail: phillips-r@mail.mssc.edu

Preprofessional

EMS-Annex, 625-9328

Associate of Arts Degree
This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours.

Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Radiologic Technology

Kuhn Hall 304, 625-3118

Faculty Beals

The associate of science degree in radiologic technology combines Core Curriculum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 221, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 221 must meet these prerequisites before being admitted to the program.

Special admissions procedures are required for admittance into this program in addition to admission to Missouri Southern State College. A special Radiologic Technology application must be turned in to the Director of the Radiology Program before March 1st of the year the student would enter the program. Students may begin the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of $100 for the first semester and $40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

Associate of Science in Radiologic Technology

		Semester Hours
Core Requirements (p. 35)		**25**
Radiology Requirements		**55**
Rad 101	Introduction to Radiology*	3
Rad 111	Medical Terminology	3
Rad 121	Patient Care and Special Procedures in Radiology	3
Rad 132	Prin of Radiographic Exposure	3
Rad 142	Radiographic Pos I	3
Rad 160	Film Critique	2
Rad 170	Radiologic Physics	3
Rad 180	Practicum in Radiology	4
Rad 241	Radiographic Pos II	3
Rad 252	Radiographic Pos III	3
Rad 282	Practicum in Radiology II	2
Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
Bio 221	Human Anatomy & Physiology*	5
Chem 100	Elementary Chemistry**	
OR		
Phys 100	Fundamentals of Physical Science	5
Psy 221	Psychology of Personal Adjustment	3
Bio 240	Radiation Biology*	3
		55

*See course descriptions for prerequisites.
**Satisfies Core Curriculum Requirement.

Suggested Order of Study

Associate of Science Degree
Major Code 5207
Radiologic Technology Major

Freshman Year
Fall Semester

Course		Hours
Bio 221	Human Anatomy & Phys**	5
Rad 101	Intro to Radiology	3
Rad 170	Radiologic Physics	3
Rad 142	Radiographic Pos I	3
CORE	[Psy 120 College Orient]	1
CORE	[Kine 101 Physical Activity]	1
		16

Spring Semester

Math 130	College Algebra	
OR		
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Prin of Radiographic Exp	3
Rad 241	Radiographic Posi II	3
CORE	[Kine 103 Lifetime Wellness]	2
		17

Summer Semester*

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

Sophomore Year
Fall Semester

Chem 100	Intro Chemistry	
OR		
Phys 100	Fund of Phys Sci	5
CORE	[Eng 101 Comp I]	3
Psy 221	Psy of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Pos III	3
		17

Spring Semester

CORE	[Hist 110 or Hist 120]***	3
CORE	[Comm 100 Oral Comm]	3
Rad 121	Pat Care & Spec Pro	3
Rad 282	Practicum in Radiology II	2
CORE	[Literature or Fine Arts]	3
		14

Summer Semester

Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
		7

[Department Recommendations]
*Summer classes meet a minimum of 12 weeks.
**Placement in Bio 221 will depend on pre-entrance Introduction to Human Biology test scores or completion of Bio 121.
***Missouri Constitution Exam or PSc 120 Gov't: U.S., State, Local

For additional information contact:
Mr. Wiley Beals
Office: Kuhn Hall 304
Phone: 625-3118
E-Mail: beals-w@mail.mssc.edu
OR
Dr. Jack G. Spurlin
Office: Justice Center
Phone: 625-9328
E-Mail: spurlin-j@mail.mssc.edu

Course Descriptions

Rad 101 — 3 hrs. cr.
Introduction to Radiology
Basic procedures and equipment in the radiology department. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or corequisite Bio 221.

Rad 111 — 3 hrs. cr.
Medical Terminology
The language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Relates medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Rad 121 — 3 hrs. cr.
Patient Care and Special Procedures in Radiology
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media. Special attention to visualization of digestive, urinary and reproductive organs. Three hrs. lecture per week.

Rad 132 — 3 hrs. cr.
Principles of Radiographic Exposure
Fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.

Rad 142 — 3 hrs. cr.
Radiographic Positioning I
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

Rad 160 — 2 hrs. cr.
Film Critique
Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

Rad 170 — 3 hrs. cr.
Radiologic Physics
The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.

Rad 180 — 4 hrs. cr.
Practicum in Radiology I
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

Rad 241 — 3 hrs. cr.
Radiographic Positioning II
In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.

Rad 252 3 hrs. cr.
Radiographic Positioning III
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

Rad 282 2 hrs. cr.
Practicum in Radiology II
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

Rad 290 4 hrs. cr.
Practicum in Radiology III
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

Rad 299 3 hrs. cr.
Advanced Radiology
Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per week

Respiratory Therapy

Allied Health, 659-4400

Faculty Erwin-Program Director, Pippin-Clinical Director, Dunaway, Vanderbeck

A career in the medical field can be a dynamic and rewarding opportunity. The changing nature of the medical profession is creating a demand for multi skilled health professionals with communication, interpersonal, and excellent clinical skills such as the respiratory care practitioner. The Respiratory Care Programs are designed to prepare students to be employed in the hospital, clinic, laboratory, and alternate care settings such as the patient's home. Respiratory Therapist perform a variety of clinical, diagnostic and management functions in these settings.

The Respiratory Therapy Department offers these career tracts:

(1) an Entry-Level Associate of Science degree for applicants entering the field,
(2) an Upper Division, Advanced-Level Certificate tract for graduates of an associate of science entry-level respiratory therapy program and
(3) a Career Ladder Baccalaureate Degree Program, for graduates of the advanced level program.

The curriculum offers the following options:

- Entry Level Associate of Science in Respiratory Therapy, designed for those entering the respiratory therapy field, requires 64 semester hours of prerequisite and professional courses.
- Advanced Level, Upper Division Certificate Program in Respiratory Therapy designed for graduates of an entry-level, associate degree respiratory therapy program, who have passed the NBRC Certification examination.
- Career Ladder leading to a Bachelor of Science in Management Technology with an Emphasis in General Business or a Bachelor of General Studies designed for graduates of the Advanced Level Respiratory Therapy program.

The Entry Level, Associate of Science Degree Program in Respiratory Therapy, prepares students for a position as a certified respiratory therapist. The program is provided by Missouri Southern State College and Franklin Technology Center, through a consortium for respiratory therapy education. The Associate in Science, entry-level program consists of a core academic component and a major concentration component. The academic section consists of the MSSC associate of science degree core requirements, including courses in the Humanities and Fine Arts, Natural Science, Social and Behavioral Sciences, Mathematics, English, Communication, and Physical Education concentration areas. The respiratory therapy major concentration components comprise both the didactic and respiratory therapy clinical instructional areas. The didactic courses consist of Foundations of Respiratory Therapy, Cardiopulmonary Sciences, Cardiopulmonary Anatomy & Physiology, Respiratory Therapy Procedures, Cardiopulmonary Pathology, Cardiopulmonary Pharmacology, Neonatal/Pediatric Care, Mechanical Ventilation, and Cardiopulmonary Diagnostics. The clinical courses are taught under the heading of Clinical Respiratory Therapy Experience I and II. Upon the successful completion of the entry-level program, the student will be eligible to sit for the National Board of Respiratory Care, NBRC, Entry-Level (Certification) Examination. Certified Respiratory Therapists are eligible for licensure as a Licensed Respiratory Care Practitioner in the state of Missouri, Arkansas, Oklahoma, and Kansas.

The Advanced Level, Upper Division, Certificate Program builds upon the entry-level associate of science degree program. It consists of an advanced level respiratory therapy major concentration component. The concentration component comprises respiratory therapy education in the didactic and clinical competencies required of an advanced level trained respiratory care practitioner. All students must successfully complete the NBRC Entry Level (Certification) Examination prior to graduation from the advanced level program and must agree to sit for the Advanced Level (Registry) examination within one year of graduation from the program.

Registered Respiratory Therapist function in a wide variety of settings. As clinicians they work in adult intensive care units, pediatric and neonatal intensive care units, emergency and trauma units, operation and recovery rooms, rehabilitation programs, home health agencies, and a variety of cardiopulmonary diagnostic laboratories. Some graduates pursue advanced degrees in management, education, public health, or the biomedical sciences. Graduate degrees lead to positions in educational institutions in teaching or research capacities. Senior respiratory care practitioners may be responsible for the management and operation of respiratory care departments.

Respiratory Therapy Students must demonstrate numerous competencies representing all three learning domains: the cognitive, psychomotor and affective domains. Students learn, practice, and verify these competencies in a number of settings including the classroom, laboratory and clinic. To achieve the required competencies in the classroom setting, respiratory therapy students must perceive, assimilate and integrate information from a variety of sources. These sources include oral instruction, printed material, visual media, and live demonstrations. Students must participate in classroom discussion, give oral reports, and pass written computer-based examinations of various formats. Completion of these tasks requires cognitive sills, such as reading, writing and problem-solving. To be physically capable of the classroom work, students must, with assistance, be able to: hear, see, speak, sit and touch. Respiratory therapy laboratories provide students with the opportunity to view demonstrations, evaluate and practice with medical devices and perform simulated clinical procedures. In addition to the cognitive skills required in the classroom, students must demonstrate psychomotor skills in manipulation of pa-

tients and equipment, as well as general professional behaviors, like team-building and interpersonal communications. To satisfy laboratory and clinic requirements, students must perform all procedures without critical error.

Admission to Missouri Southern or Franklin Technology Center does not automatically grant admission to the respiratory therapy program. In addition to meeting admission requirements to the College, candidates must apply for admission to the department of respiratory therapy. Applicants must submit the necessary information to the Allied Health Office by the designated deadline to be considered for acceptance. Enrollment is competitive; applicants are admitted contingent upon the completion of the application process and review by the selection committee. Evidence of computer literacy and satisfactory completion of the following prerequisites with a "C" or better must be presented: Math 030 Intermediate Algebra or higher (Math 020 meets program admission requirements however will not satisfy the associate of science degree core requirement for math). Department Recommendation; High school or college course work in Physical Science and Chemistry. Interested individuals are encouraged to contact the Program Director of Respiratory Therapy for more specific information regarding admissions criteria.

In addition to established fees for all college students, other costs are incurred by respiratory therapy students such as: uniforms, safety glasses, books, self assessment examinations, graduation pins, AARC student membership dues, liability insurance, and various expense for transportation to off campus clinical sites and professional meetings.

The advanced level, upper division program is for the graduate of an accredited entry-level respiratory therapy program. Previous respiratory care education and practice are recognized and valued throughout the curriculum. The advanced level curriculum expands respiratory therapy knowledge and practice gained in the entry-level program to meet the changing health care needs of the community and region. Graduates of Missouri Southern or Franklin Technology Center's entry-level certification program are eligible for direct admission to Southern's Advanced Level Respiratory Therapy program upon meeting MSSC's associate degree core requirements. Graduates of other accredited entry-level programs are eligible for admission upon meeting transfer requirements and current certification from the National Board for Respiratory Care. Recent graduates may be admitted conditionally as entry-level graduates after providing documentation of satisfying meeting entry level respiratory therapy competencies . These recent graduates must pass the National Board for Respiratory Care's certification examination prior to earning an advanced level certificate in respiratory therapy from Missouri Southern.

Graduate outcomes

Graduates of the program will:

- Demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their role as respiratory therapist.
- Demonstrate the technical proficiency in all skills necessary to fulfill the role as a respiratory therapist.
- Demonstrate personal behavior consistent with professional and employer expectations for the respiratory therapist.

Admission Criteria

(Entry Level, Associate of Science in Respiratory Therapy)

Application for the entry-level program should be made **directly to the Allied Health Office** on the Missouri Southern State College campus (special admissions procedures are required for admittance into this program in addition to admission to MSSC).

1. Continuous enrollment, readmission or admission to Missouri Southern and Franklin Technology Center as a transfer student.
2. Completion of an approved college level math course.
3. Provide documentation of computer literacy.
4. Minimum percentile score on the Health Occupations Entrance Test administered by the Department.

Admission to the program is competitive. Applicants who meet all admission criteria, have completed math and natural science courses, and/or have healthcare experience will be given preference in admission.

Admission Criteria

(Upper Division, Advanced Level Program)

1. Graduation from an entry-level program accredited by the Commission on Accreditation of Allied Health Education programs (CAAHEP) for entry level respiratory care.
2. Continuous enrollment, readmission or admission to Missouri Southern as a transfer student.
3. Preference given to persons currently holding certification from the National Board for Respiratory Care, Inc. and/or a graduate of Missouri Southern's entry-level respiratory therapy program.

Entry-Level Associate of Science in Respiratory Therapy

Associate Degree Core Requirements	25
Respiratory Therapy Major Requirements	39
	64

Advanced Level, Upper Division Certificate in Respiratory Therapy

Associate of Science in Respiratory Therapy (entry-level program)	64
Respiratory Therapy Major Requirements	18
	82

Suggested Order of Study

Prerequisite

Math 030	Intermed Algebra or Higher	3
CORE*	[Comm 100 Oral Comm]	3
		6

Respiratory Therapy Seminar
(offered during the summer semester)

Freshman Year
(Missouri Southern/Franklin Technology Center)

Fall Semester

CORE	[Bio 121 Intro to Anatomy]	4
CORE*	[Eng 101 English Comp] WI	3
Resp 101	Resp Therapy Foundations	3
Resp 102	Cardiopulmonary Sciences	3
Resp 107	Resp Therapy Procedures	3
Resp 108	Resp Therapy Procedures Lab	3
		19

Spring Semester

CORE*	[Humanities and Fine Arts]	3
CORE *	[Kine 101 Physical Activity]	1
Resp 105	Cardio Anatomy & Phys	3
Resp 120	Cardiopulmonary Pathology	3
Resp 125	Clinical Resp Therapy Exp I	3
Resp 129	Cardio Pharmacology	3
		16

Summer Semester

CORE*	Psy 100 or Soc 100	3
CORE*	Kine 103 Lifetime Wellness	2
		5

Sophomore Year
(Missouri Southern/Franklin Technology Center)
Fall Semester

CORE*	Hist 110 or Hist 120	3
Resp 222	Intro to Mech Ventilation	4
Resp 226	Cardio Diagnostics	3
Resp 239	Clinical Resp Therapy Exp II	5
Resp 311	Neonate/Pediatric Resp Care	3
		18
		64

[Entry Level Program
Department Recommendations]
*Identified Core courses may not necessarily be taken in this order, however all Major courses must be taken in sequence and in the order presented in this catalog. Math 020 meets entrance requirements of the entry level respiratory therapy program, but does not meet the associate of science degree core requirement for Mathematics. Associate of science degree students must meet the Missouri Constitution Requirement by completing PSc 120 or the Missouri Constitution Test.

Suggested Order of Study

Advanced-Level
Junior Year (Missouri Southern State College)
Spring Semester

Resp 307	Cardiopulmonary Assessment	6
Resp 312	Mechanical Ventilation	3
Resp 313	Alternate Site Resp Care	3
Resp 340	Advanced Level Resp Therapy Clinical Experience	5
Resp 341	Research Issues, Methods & Problems in Respiratory Care	1
		18

Entry Level Major, Associate Degree Core, and Advanced Level Major **82**

[Advanced Level Program Department Recommendations]
These graduates must have passed the National Board for Respiratory Care certification examination prior to earning an advanced level certificate in respiratory therapy from Missouri Southern State College. The entry-level core, of students entering the advanced level curriculum, should include Fundamentals of Physical Science or Introduction to Chemistry, Intermediate Algebra, Introduction to Computers and a total of six semester credits of Anatomy and Physiology and/or Cardiopulmonary Anatomy and Physiology.

For additional information contact:
Director of Respiratory Therapy Programs
Missouri Southern State College
Consortium for Respiratory Therapy Education
Allied Health Office, MSSC Campus
3950 East Newman Road,
Joplin MO 64801
Phone: (417) 659-4400
Fax: (417) 659-4408
E-Mail: erwin-j@mail.mssc.edu

Course Descriptions

Resp 101 3 hrs. cr.
Respiratory Therapy Foundations
Entry level information is presented regarding respiratory therapy history from its conception to its current goals and standing. Topics covered will include medical terminology, hospital and respiratory therapy department structure and management, psychosocial aspects of patient care, and medical ethics. Clinical session, which allows the student an observational rotation at the program's clinical sites, will allow the student the opportunity to integrate didactic material learned with actual patient contact experiences. Prerequisite: Admission to the respiratory therapy program and completion of Math 020 or higher.

Resp 102 3 hrs. cr.
Cardiopulmonary Sciences
Focuses on the sciences used in the practice of respiratory therapy. Emphasis will be placed upon physics, chemistry, and microbiology as related to the cardiopulmonary sciences. Prerequisite: Admission to the respiratory therapy program.

Resp 105 3 hrs. cr.
Cardiopulmonary Anatomy and Physiology
An in-depth presentation of the cardiopulmonary system, its abnormalities and corrective techniques as related to respiratory therapy. Included are the concepts of the cardiovascular system, ventilation, diffusion of pulmonary gases, hemodynamic measurements, ventilation perfusion relationships, oxygen and carbon dioxide transport, acid base balance and arterial blood gas analysis. Prerequisite: Admission to the respiratory therapy program, Math 020 or higher, and completion of one of these courses; Biology, Introduction to Anatomy, Zoology, or Anatomy & Physiology.

Resp 107 3 hrs. cr.
Respiratory Therapy Procedures
Theory and practice of basic respiratory therapy procedures as outlined in the National Board for Respiratory Care (NBRC) entry level examination content outline. Including cardiopulmonary assessment, medical gas administration, oxygen therapy, infection control, equipment maintenance, chest physiotherapy, chest expansion therapy, airway management, bedside pulmonary function testing, arterial puncture and administering medicated aerosol therapy. Prerequisites: Admission to the respiratory therapy program and concurrent enrollment or completion of the Respiratory Therapy Procedures Laboratory course.

Resp 108 3 hrs. cr.
Respiratory Therapy Procedures Laboratory
Students practice entry level respiratory care procedures, using state-of-the-art equipment, in the learning laboratory under simulated patient situations. The student will address the three difficulty levels of learning, in the laboratory environment (Recall, Application, and Analysis). Prerequisites: Admission to the respiratory therapy program and concurrent enrollment or completion of the Respiratory Procedures course.

Resp 120 3 hrs. cr.
Cardiopulmonary Pathology
Study of concepts and theory of selected cardiopulmonary diseases, to include: definition, clinical manifestations, etiology, pathologic, radiological and laboratory findings; prevention, prognosis and treatment. Prerequisite: Admission to the respiratory therapy program and completion of one of these courses; Biology, Introduction to Anatomy, Zoology, or Anatomy & Physiology.

Resp 125 3 hrs. cr.
Clinical Respiratory Therapy Experience I
Clinical instruction supplemented by clinical conferences that allow the student to apply the classroom and laboratory respiratory therapy competencies mastered in specific respiratory therapy courses. Prerequisites: Respiratory Therapy Procedures and Respiratory Therapy Procedures Laboratory.

Resp 129 3 hrs. cr.
Cardiopulmonary Pharmacology
Comprehensive overview of the general principles of pharmacology. Focuses on the drugs and drug groups that are either administered by respiratory therapy personnel, or those that play a role in the care of cardiopulmonary patients. Prerequisite: Introduction to Anatomy and Physiology and admission to the respiratory therapy program.

Resp 222 4 hrs. cr.
Introduction to Mechanical Ventilation (Life Support Technology)
Emphasis on the technical components of mechanical ventilators, their classification, principles of operation, attachments, and the flow/pressure/volume curves generated by various ventilators, compliance and resistance. An introduction to the management of patients receiving mechanical ventilation will be presented. Prerequisite: Admission to the respiratory therapy program.

Resp 226 3 hrs. cr.
Cardiopulmonary Diagnostics
Theory, application and equipment for diagnosing respiratory pathologies through the diagnostic concepts used in respiratory therapy. Include techniques utilized for measurement of lung gas volumes, capacities, flows, and cardiopulmonary status during exercise testing. Prerequisite: Admission to the respiratory therapy program.

Resp 239 5 hrs. cr.
Clinical and Laboratory Experience II
Clinical instruction supplemented by clinical conferences that allow the student to apply the knowledge and respiratory care skills mastered in the Respiratory Care courses; Cardiopulmonary Diagnostics, Introduction to Mechanical Ventilation, and Neonatal and Pediatric Respiratory care in the laboratory and clinical setting. The course will emphasize ventilator care, diagnostic procedures, and alternate site care (home care). Prerequisite: Respiratory Therapy Clinical Experience I.

Resp 307 6 hrs. cr.
Cardiopulmonary Assessment
A systematic approach to advanced cardiopulmonary patient assessment. Emphasis is on evaluation of the respiratory care plan based upon laboratory data, electrocardiogram interpretation, fluid and electrolyte balance, acid base balance and oxygen transport, pulmonary function testing, exercise testing, interpretation of chest x-rays, bronchoscopy, and hemodynamic monitoring. Prerequisite: Admission to the respiratory therapy program. Graduates of an advanced level respiratory therapy program may use this course as a review for their national board examinations.

Resp 311 3 hrs. cr.
Neonatal and Pediatric Respiratory Care
Respiratory care of the neonatal and pediatric population with complex variances of health in the acute care and home care settings. Prerequisite: Admission to the respiratory therapy program.

Resp 312 3 hrs. cr.
Advanced Mechanical Ventilation (Advanced Life Support)
A continuation of the Introduction to Mechanical Ventilation (Life Support Technology) course. In-depth study of ventilator management in critical care, long-term care, and the home environment utilizing case studies and clinical problem based learning sessions. In addition the course addresses ACLS (Advanced Cardiac Life Support). Prerequisite: Introduction to Mechanical Ventilation (Life Support Technology).

Resp 313 3 hrs. cr.
Alternate Site Respiratory Care
(Writing Intensive)
Theoretical aspects of providing respiratory therapy at alternate sites. Includes components of home respiratory therapy, extended care units, long term care facilities, ventilator rehabilitation centers, physician offices, land/air transport, outpatient diagnostic clinics. Introduces the fundamentals of teaching and learning theories. Prerequisite: Admission to the advanced level respiratory therapy program.

Resp 340 5 hrs. cr.
Advanced Level Respiratory Therapy Clinical Experience
Progressive process of developing cognitive levels at the recall, application, and analysis levels as a respiratory care practitioner. Correlates directly with the Advanced Mechanical Ventilation (Advanced Life Support) course, Cardiopulmonary Assessment, Neonate/Pediatric, and the Alternate Site (Management/Pulmonary Rehabilitation/Home Care) courses, to provide the student a clinical environment to demonstrate these learned advanced level respiratory care competencies. Prerequisite: Admission to the advanced level respiratory therapy program and concurrent enrollment or completion of the advanced level classroom and laboratory respiratory therapy courses.

Resp 341 1 hr. cr.
Research Issues, Methods and Problems in Respiratory Care
Directed research and discussion in selected areas of respiratory care for advanced level respiratory therapist. Course work includes independent literature search under the supervision of a respiratory care instructor that utilizes the student's program acquired respiratory care critical thinking, writing, and oral presentation skills. Research scope, depth, and area of concentration to be approved by the program director. Prerequisite: Students must be in their final semester of the advanced level program to enroll in this course.

Institute of International Studies

International Studies
Interdisciplinary Studies

International Studies

Webster Hall 337, 417-659-4442

Faculty C. Stebbins - Director

Role

International studies as defined by the Institute of International Studies allow as many disciplines as possible to become involved in the internationalizing of the College. In its conception, the Institute believes **INTERNATIONAL** implies the wholeness, the complexity, and the interdependence of all nations of the world. The Institute proposes five dimensions to global learning: that students become aware that they have a view of the world that is not universally shared; that students explore perceptions of the world as others see it; that students increase their awareness of the state of the planet, or where we have been, where we are, and where we are likely to be heading; that students derive a knowledge of how the world works; and an awareness that human choice is possible and can make a difference.

Today one must cope with a growing array of complex global issues which are, at their core, as former U.S. Senator William Fulbright once said, human problems not technological ones. Because of that, international studies must center on constructive interaction with people from cultures and countries other than the students' own. The Institute of International Studies provides courses, coordinates international enhancement of existing courses, supports development of new international courses, and promotes study, work, and travel abroad by students and faculty. Integrating language and cross cultural studies with disciplines and specific areas of concern, the Institute offers both a major and minor in international studies, further emphasizing the importance of such inquiry in the students' future world. The major in international studies is committed to the development by students of high intellectual standards, concern for the whole person, and practical cross-cultural and professional skills to enable them to embark upon immediate employment or graduate study. The Institute, moreover, is committed, through its leadership, in assisting global education to become more pervasive throughout the curriculum and extracurricular activities of the College.

Finally, the Institute is committed to continual assessment of international programs and its mission to ensure that students develop not only an awareness of international problems but specific competencies needed in business, industry, government, education, and the professions.

Objectives

It is the goal of the Institute of International Studies that all baccalaureate graduates of Missouri Southern State College, as a result of international programs, courses, and course elements, shall:

1. Demonstrate an awareness of cultures other than their own, with their differing values, traditions, and institutions.
2. Realize the need for a tolerance of human diversity.

It is the goal of the major in international studies that students who complete the program shall:

1. Demonstrate communication skills in a language other than their own at a proficiency beyond the intermediate level of study.
2. Analyze a variety of problems of international significance, selecting or creating possible solutions, and defining possible means of implementation.
3. Compare values of one culture with those of another, demonstrating how values develop and analyzing how cultural values impact on decisions of international importance.
4. Analyze the impact of social institutions in their own culture as well as in another, demonstrating an understanding of individuals' roles in these systems, be they governmental, economic, religious, family, or occupational.
5. Identify activities and products which constitute the scientific/technological aspects of a culture other than their own, demonstrating an understanding of the impact of such activities and products on the individuals and the physical environment in a culture.
6. Identify those activities and products which constitute the artistic aspects of a culture other than their own; understand the impact which art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within that culture.

Student Organizations

The International Club includes international students, international studies majors and minors, and students, faculty, and staff interested in understanding other cultures.

A major in international studies may lead a student to a satisfying career in foreign service or may prepare a student for graduate studies in specialized international fields. When combined with a major in another discipline, a major in international studies will prepare a student for a variety of jobs in the international workplace. It is through close consultation with an adviser that the student will most properly prepare for a career.

The Bachelor of Arts Degree with a Major in International Studies

		Semester Hours
Core Requirements (p. 33)		**48***
Foreign Language		**12**
(4 courses in one foreign language are required for the B.A. degree.)		
International Studies Requirements:		**46-50**
IntS 201	Introduction to International Studies	3
IntS 301	World Humanities	3
IntS 302	World Environmental Issues	3
IntS 303	Contemporary World Civilizations	3
IntS 304	Comparative Political Economy	3
IntS 305	International Techno-Trends**	3
IntS 400	Senior Thesis in International Studies	3
Supporting Requirements:		
Foreign Language		6
(6 additional hours in the foreign language used to satisfy the B.A. requirement)		
An appropriate research methods course in a specific discipline must be chosen in consultation with the student's adviser.		1-5
Electives in approved international courses		18
Electives		**14-18**
		124* **

*Three hours of foreign language meet core requirements.
**Meets computer literacy requirement.
***Must include at least 40 upper-division (300-400 level) hours.

The Minor in International Studies

		Semester Hours
IntS 201	**Introduction to International Studies**	**3**
At least two of the following:		**6**
IntS 301	World Humanities	3
IntS 302	World Environmental Issues	3
IntS 303	Contemporary World Civilizations	3
IntS 304	Comparative Political Economy	3
IntS 305	International Techno-Trends	3

Six additional hours which can be selected from **IntS** designated courses and from IntS 301, 302, 303, 304, 305 or IntS 400, Senior Thesis in International Studies. (Three hours could include a study-abroad experience.) **6**

Foreign Language (six hours beyond the B.A. requirement of 12 hours, all in the same language.) **6**

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Suggested Order of Study

Bachelor of Arts
Major Code 4900
International Studies Major

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Comp 1]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Kine 101 Physical Activity]	1
Foreign Language		3
Elective	[Hist 130 World Civilization]	3
Psy 120	College Orientation	1
		17

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Art/Mus/Th 110 Appreciation]	3
CORE	[Kine 160 Lifetime Wellness]	2
Foreign Language		3
Elective	[Hist 140 World Civilization]	3
		17

Sophomore Year

1st Semester

CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Foreign Language		3
IntS 201	Intro to Int'l Studies	3
CORE	[Econ 201 Prin of Econ]	3
		17

2nd Semester

CORE	[Bio 101 General Biology]	4
Foreign Language		3
IntS 304	Comp Political Economy	3
CORE	[Eng 261 Mstrpces of Wld Lit]	3
Elective	[Geog 211 Regions/Nations]	3
		16

Junior Year

1st Semester

CORE	[Hist 120/320 U.S. History]	3
Foreign Language		3
IntS 301	World Humanities	3
CORE	[Eng 262 Mstrpces of Wld Lit]	3
Elective	[Comm 305 Intercul Comm]	3
IntS 303	Contemporary World Civ	3
		18

2nd Semester

CORE	[Psy 100/Soc 110]	3
Foreign Language		3
IntS 302	World Environmental Issues	3
Electives		6
		15

Senior Year

1st Semester

IntS 305	International Techno-Trends	3
Research Methods Course		1-5
Electives		7-11
		12

2nd Semester

IntS 400	Sr Thesis in Int'l Studies	3
Electives		9
		12

[Department Recommendations]

For additional information contact:
Director, Institute of International Studies
Office: Webster 138
Phone: 417-659-4442
E-Mail: stebbins-c@mail.mssc.edu

Course Descriptions

IntS 201 (F) 3 hrs. cr.
Introduction to International Studies
An introduction to the interdisciplinary study of global issues. The student will receive a variety of ideas, insights, and images of the world, and will discuss a number of topics including methodologies of global studies and career options. Required of international studies majors and minors, open to all others.

IntS 298 (Demand) 3 hrs. cr.
Selected Topics in International Studies
Topics not normally included in another course. Prerequisites are determined by the Institute of International Studies and stipulated in the course syllabus.

IntS 301 (F) 3 hrs. cr.
World Humanities
Transcultural study of the manifestations of the major art forms of the humanities: literature, theatre and film, painting and sculpture, music and dance. The course will stress critical exploration of the relation of the art forms to the cultures from which they emerge and comparative study of the nature and function of the art forms in traditions temporally or spatially distinct from each other, including western and eastern traditions. Required of international studies majors; open to all others. Prerequisite: 3 cr. hrs. from among Core Curriculum humanities courses.

IntS 302 (S) 3 hrs. cr.
World Environmental Issues
A global survey of the environmental disasters, both natural and man-made, that plague the world community, including earthquakes, volcanoes, floods, avalanches, atmospheric phenomena, climate modification, radiation, destruction of tropical rainforests, declining biodiversity, resource depletion, stratospheric ozone depletion, urbanization and overpopulation; discussion of global carrying capacity and limits to growth; analysis of "sustainable" global communities; an overview of global responses to environmental issues through economic policies, the United Nations, international treaties, and the "Green" political movement; and critical review of the various philosophies which underpin contemporary evaluations of the condition of the environment. Required of international studies majors; open to all others. Prerequisite: Physics 100 and Biology 101.

IntS 303 (F) 3 hrs. cr.
Contemporary World Civilizations
A systematic and comparative introduction to the contemporary history of major world civilizations, with a special emphasis on historical developments that have influenced more than one civilization or cultural region. Required of international studies majors; open to all others. Prerequisite: 3 hours of history.

IntS 304 (S) 3 hrs. cr.
Comparative Political Economy
Comparative study of alternative methods of solving the political and economic problems of production, distribution and allocation. Required of international studies majors, open to all others. Prerequisite: 3 hours of economics.

IntS 305 (F) 3 hrs. cr.
International Techno-Trends
A systematic and comparative view of the historical, cultural, environmental, ethical, economic, legal and political factors that have influenced issues and trends in technology. Issues related to international communications, criminal justice, health and manufacturing will be explored. Required of international studies majors; open to all others. Prerequisite: English 102 and Junior Standing.

IntS 400 (F, S) 3 hrs cr.
Senior Thesis in International Studies
(Writing Intensive)
With a faculty supervisor the student will explore and challenge a topic of global concern and produce a senior thesis and make an oral presentation. Required of all international studies majors. Prerequisite: Senior standing, permission of the director of the Institute of International Studies and an appropriate course in research techniques chosen in consultation with the student's adviser.

IntS 498 (Demand) 3 hrs. cr.
Special Topics in International Studies
For upper-division students. Topic to be announced each time the course is offered. Prerequisites are determined by the Institute of International Studies and stipulated in the course syllabus.

IntS 499 1-3 hrs. cr.
Independent Study in International Studies
An independent course structured by the adviser with approval of the director of the Institute of International Studies. Prerequisite: Must have completed 90 hours with a cumulative grade point average of 3.0 and have completed a minimum of 15 hours of international studies courses. Project must be approved by adviser, by the course director, and by the director of the Institute of International Studies prior to enrollment.

Interdisciplinary Studies

Multidisciplinary and Interdisciplinary Studies

The goal of interdisciplinary study is to help students develop knowledge and skills outside the traditional discipline boundaries.

Minor in Multimedia

The minor in Multimedia is designed to allow students to gain the skills necessary for careers in a variety of occupations such as business communications, advertising, graphics and the arts, network communication systems, and business and media communication. Students will gain skills in software, multimedia design, programming, communication, marketing, and strategy development.

Minor in Multimedia

Required:

MM 415	Virtual Marketing	3
Comp 110	Programming I	3
Art 101	Basic Design I	3
Comm101	Intro to Human Comm	3
		12

For Business emphasis – Choose two*:

MM 337	Mgmt Info Systems	3
MM 401	Promotional Mgmt	3
MM 432	Consumer Behavior	3

For Technology emphasis – Choose two*:

CIS 305	Microcomputer App I	3
CIS 310	Microcomputer App II	3
CAMT 210	Computer Animation for Industry	3

For Art/Graphic Design emphasis – Choose two*:

ART 215	Computer Design I	3
ART 240	Typography and Lettering	3
ART 315	Computer Design II	3

For Communication emphasis – Choose two*:

COMM 130	Intro to Broadcasting	3
COMM 200	Audio Production for Media	3
COMM 311	Intro to Public Relations	3
COMM 470	New Media Technology	3
		6
Total for Minor (Multimedia)		**18**

*Other courses may be substituted with permission of adviser.

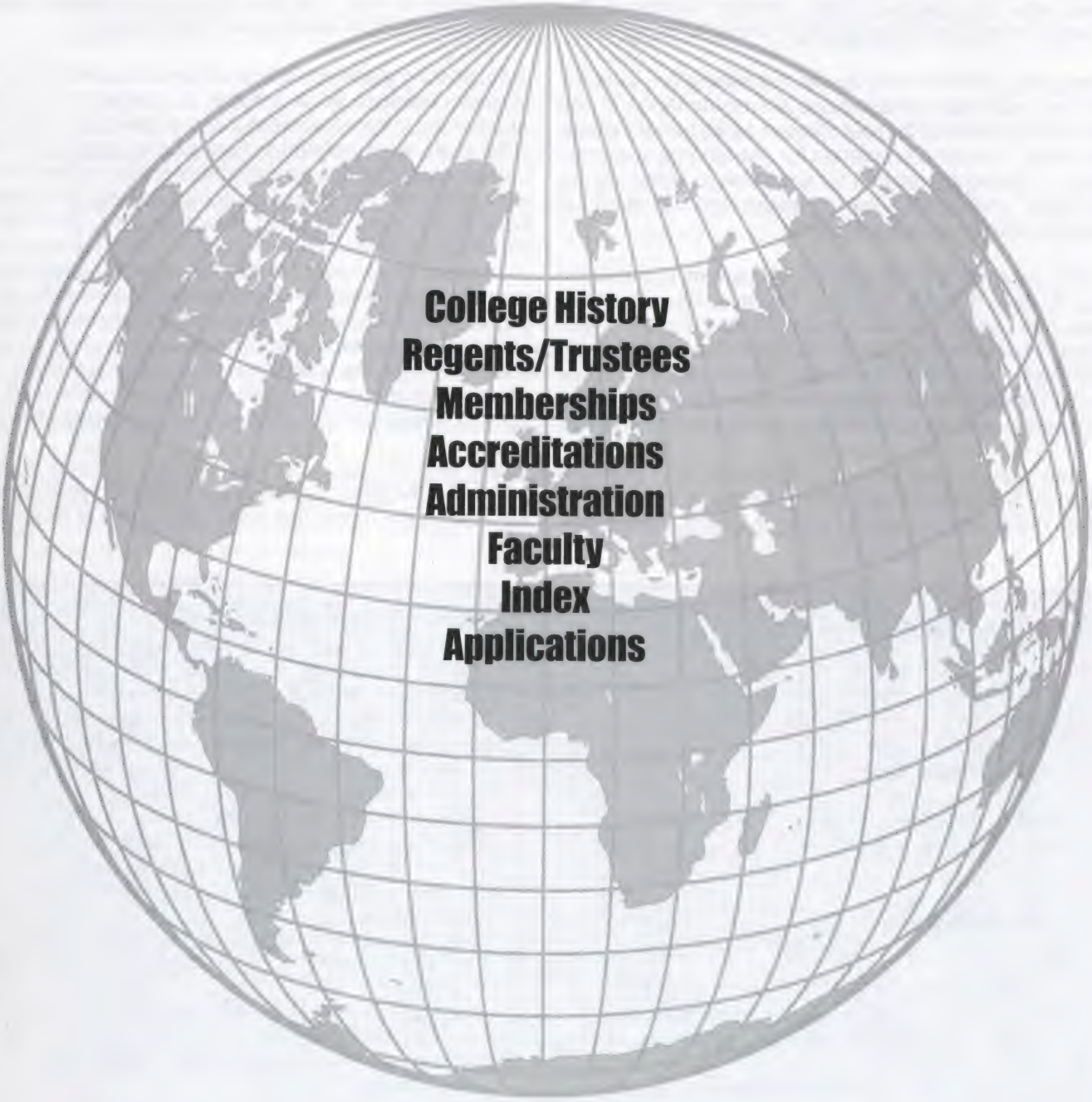
Course Descriptions

MIDS 101 (F,S) 1 hr. cr.
Honors Forum
An open forum to introduce Honor students to the principles and practice of scholarly inquiry and active learning. Students in small groups are responsible for the selection, design, research, and presentation of topics covering a range or a combination of disciplines. May be taken up to three times for credit.

MIDS 298 (Demand) 1-4 hrs. cr.
Interdisciplinary Seminar
An interdisciplinary course. Topics will vary. Open to all students. 1-4 credit hours. Prerequisites will vary according to topic. Enrollment with instructor's permission only.

MIDS 398 (Demand) 3 hrs. cr.
Interdisciplinary Seminar
An interdisciplinary Honors course. Topics will vary. Open to juniors and seniors in the Honors Program and to others with a 3.5 GPA with instructor's permission. Required for juniors in the Honors Program. Prerequisites: Membership in the Honor's Program and completion of 60 or more credit hours or 3.5 GPA and instructor's permission.

College Organization



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College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five-to-one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens in an eight to one majority to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire College.

With growing global interdependence, it became clear that Missouri Southern must prepare its students to function successfully in the new world that was emerging. So in June 1990, plans were announced to pursue the expansion of the College's mission to incorporate an international emphasis in all its academic and special programs. In 1995, the Missouri General Assembly approved House Bill 442, directing the institution to "develop such academic support programs and public service activities it deems necessary and appropriate to establish international or global education as a distinctive theme of its mission." The following year the Legislature began phasing in increased appropriations to help Missouri Southern make the global mission a reality. Many new programs in international education that will enrich and complement the existing programs are now being phased in.

Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

Memberships

Teacher Education Council of State Colleges and Universities
American Association of State Colleges and Universities
American Association of Colleges for Teacher Education
Association of Collegiate Business Schools and Programs
North Central Association
Council for the Advancement and Support of Education
American Assembly of Collegiate Schools of Business
Association of Collegiate Schools and Business Programs
National League for Nursing Council of Baccalaureate and Higher Degree Programs
National League for Nursing Council of Associate Degree Programs

Accreditations and Approvals

North Central Association of Colleges and Secondary Schools, 30 N. LaSalle Street, Suite 2400, Chicago, IL 60602-2504, Phone: 800-621-7440 Web Site: www.NCAcihe.org
National Council for the Accreditation of Teacher Education, 2010 Massachusetts Avenue, N.W., Suite 500, Washington, DC 20036, Phone: 202-466-7496
Missouri State Board of Nursing
Missouri State Department of Elementary and Secondary Education
Commission on Dental Accreditation, American Dental Association
National League of Nursing Accrediting Commission
National Accrediting Agency for Clinical Laboratory Science
National Environmental Health Science and Protection Accreditation Council
Joint Review Committee on Education in Radiologic Technology
Committee on Accreditation for Respiratory Care

Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs

Administrative Staff

President ..... Julio S. León
Senior Vice President ..... John W. Tiede
Vice President for Academic Affairs ..... Erik J. Bitterbaum
Vice President for Lifelong Learning ..... Jack G. Spurlin
Assistant Vice President for Information Services ..... J. Steve Earney
Assistant to the Vice President for Academic Affairs ..... Nadine P. Schmidt

Dean of Students ..... Douglas M. Carnahan
Head Librarian ..... Charles H. Kemp

Dean, School of Arts and Sciences ..... J. Larry Martin
Dean, School of Business Administration ..... James M. Gray
Dean, School of Education ..... Michael J. Horvath
Assistant Dean, School of Education ..... Nancy L. Smith
Assistant to the Dean, School of Education ..... Al R. Cade
Dean, School of Technology ..... Jack G. Spurlin
Assistant to the Dean, School of Technology ..... Tia M. Strait

Head, Department of Art ..... Jim J. Bray
Head, Department of Biology ..... John P. Messick
Head, Department of CADD/CAMT/MIMS ..... J. S. Duggal
Head, Department of Communications and Foreign Languages ..... Jay R. Moorman
Head, Department of Computer Information Science ..... Jack L. Oakes
Head, Department of Criminal Justice ..... Robert R. Terry
Head, Department of Dental Hygiene ..... Sandra A. Scorse DeTar
Head, Department of English ..... Dale W. Simpson
Head, Department of Kinesiology ..... J. Dirk Nelson
Head, Department of Mathematics ..... Juan L. Vazquez
Head, Department of Music ..... Pete Havely
Head, Department of Nursing ..... Barbara J. Box
Head, Department of Physical Sciences ..... Marion E. Sloan
Head, Department of Psychology ..... Betsy Q. Griffin
Head, Department of Social Science ..... Richard B. Miller
Head, Department of Teacher Education ..... Nancy L. Smith
Head, Department of Theatre ..... Jay E. Fields

Director of Alumni Affairs ..... Lee E. Pound
Director of Assessment and Institutional Research ..... Delores A. Honey
Director of Budgeting and Operations ..... Jeff L. Gibson
Director of Career Services ..... Jennifer H. Yazell
Director of Continuing Education ..... R. Jerry Williams
Director of Enrollment Services ..... Derek S. Skaggs
Directo of Honors Program ..... Patricia P. Kluthe
Director of Human Resources ..... Theresa A. Agee
Director of Institute of International Studies ..... Chad D. Stebbins
Director of International Language Resource Center ..... Tatiana V. Karmanova
Director of Learning Center ..... Eillen A. Godsey
Director of Men's Athletics ..... James L. Frazier
Director of Missouri Southern Foundation ..... Curtis Betebenner
Director of Physical Plant ..... Robert W. Beeler
Director of Public Information ..... Rod E. Surber
Director of Student Financial Aid ..... James E. Gilbert
Director of Student Support Center ..... Kelly E. Wilson
Director of Women's Athletics ..... Sallie L. Beard
Registrar ..... Dianne Bales
Treasurer ..... Rob J. Yust

Faculty

(Date indicates first year of full-time MSSC service)

David L. Ackiss
Professor, English 1981
Bachelor's (B.A.), Davidson College
Master's (A.M.), College of William and Mary
Doctorate (Ph.D.), Duke University
Summer Studies, Oxford University, England

Franklyn W. Adams
Professor, Biology 1988
Bachelor's (B.S.), University of Southern Mississippi
Master's (M.A.), Montevallo University
Doctorate (Ph.D.), University of Southern Mississippi

Laura L. Adkins
Instructor, Mathematics 1980
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

Lawrence R. Albright, II
Professor, Chemistry 1969
Bachelor's (B.S.), Northwest Missouri State University
Master's (M.S.), University of Nebraska
Doctorate (Ph.D.), University of Nebraska

Ann L. Allman
Associate Professor
Student Support Center 1988
Counselor
Bachelor's (B.A.), University of Missouri
Master's (M.Ed.), University of Missouri
Doctorate (Ed.D.), University of Missouri

Marsi E. Archer
Assistant Professor, Chemistry 1998
Bachelor's (B.S.), James Madison University
Doctorate (Ph.D.), Ohio State University

Grace E. Ayton
Assistant Professor, Nursing 1986
Bachelor's (B.S.N.), Columbia Union College
Master's (M.N.), Wichita State University

Brian C. Babbitt
Professor, Psychology 1977
Bachelor's (B.A.), Western Washington State College
Master's (M.A.), University of New Mexico
Doctorate (Ph.D.), University of New Mexico

Michael E. Banks
Professor, Teacher Education 1975
Bachelor's (B.S.), Oklahoma State University
Master's (M.S.), New Mexico Highlands University
Doctorate (Ph.D.), University of Kansas

Francis L. Bartholet
Assistant Professor, Computer Aided Drafting and Design 1987
Bachelor's (B.S.), St. Cloud State University
Master's (M.Ed.), University of Minnesota
Doctoral Studies, Iowa State University

Michel Bauer
Assistant Professor, English 1998
Bachelor's (B.A.), Missouri Southern State College
Master's (A.M.), The University of Chicago
Doctorate (Ph.D.), Saint Louis University

Dorothy C. Bay Grillett
Assistant Professor, Biology 1996
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), St. Louis University

Wiley A. Beals
Instructor, Radiology 1982
Associate (A.S.), Missouri Southern State College
Graduate, Burge School of Radiologic Technology
Registered Radiologic Technologist
American Registry of Radiologic Technologists

Sallie L. Beard
Associate Professor, Kinesiology 1972
Director of Women's Athletics
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

Sheri L. Beeler
Instructor, Kinesiology 1995
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Central Missouri State University
Doctoral Studies, St. Louis University

Erik J. Bitterbaum
Professor, Biology 1994
Vice President For Academic Affairs
Bachelor's (B.A.), Occidental College
Master's (M.A.), Occidental College
Doctorate (Ph.D.), University of Florida
Year Abroad, Sussex University, Falmer, England

Robert S. Black
Assistant Professor, Library 1988
Systems/Electronic Resources Librarian
Bachelor's (B.A.), Millikin University
Master's (M.L.S.), Indiana University

Holland C. Blades, Jr.
Professor, Business 1987
Bachelor's (B.A.), Millsaps College
Master's (M.B.A.), University of Southern Mississippi
Doctorate (Ph.D.), University of Arkansas

Beverly A. Block
Professor, Business 1984
Bachelor's (B.S.), Southern Nazarene University
Master's (M.Ed.), University of Arkansas
Doctorate (Ed.D.), University of Arkansas

Barbara J. Box
Professor, Nursing 1986
Director of Nursing
Bachelor's (B.S.N.), Carlow College
Master's (M.S.), University of Oklahoma
Doctorate (Ed.D.), Oklahoma State University

Michael W. Boyd
Instructor, Business 1999
Bachelor's (B.S.B.A.), Western Carolina University
Master's (M.B.A.), Western Carolina University
A.B.D., Louisiana Tech University

William J. Bradberry
Associate Professor, Business 1998
Bachelor's (B.S.C.), Adamson University, Philippines
Master's (M.M.), Asian Institute of Management, Philippines
Master's (M.A.), University of Texas, Dallas
Graduate Study, University of the Philippines
Doctorate (Ph.D.), University of Texas, Dallas
Certified Public Accountant (CPA)

Karen Bradshaw
Instructor, Business 1985
Bachelor's (B.B.A.), Pittsburg State University
Master's (M.B.A.), Pittsburg State University

Jim J. Bray
Professor, Art 1992
Head, Department of Art
Bachelor's (B.F.A.), Phillips University
Master's (M.F.A.), Tulsa University

Barry E. Brown
Professor, Philosophy 1987
Bachelor's (B.A.), Kalamazoo College
Master's (M.A.), Columbia University
Master's (M.A.), University of Rochester
Doctorate (Ph.D.), University of Rochester

James F. Brown
Associate Professor, English 1984
Bachelor's (B.S.), University of Iowa
Master's (M.A.), University of Iowa (Education)
Master's (M.A.), University of Iowa (English)
Doctorate (Ph.D.), University of Iowa

Ward H. Bryant
Assistant Professor, Communications 1992
Bachelor's (B.S.J.), University of Kansas
Master's (M.S.), University of Kansas

Alan J. Burch
Assistant Professor, Communications 1996
Bachelor's (B.A.), State University of New York College of Arts and Science at Potsdam
Master's (M.A.), Indiana University
Doctorate (Ph.D.), Indiana University

Al Cade
Instructor, 1996
Assistant to the Dean of Education
Bachelor's (B.S.E.), Northwest Missouri State University
Master's (M.Ed.), Northwest Missouri State University

Valerie Carlisle
Assistant Professor, Student Center 1985
Coordinator of Student Activities, Director of Billingsly Student Center
Bachelor's (B.A.), West Virginia University
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Douglas M. Carnahan
Associate Professor, Student Services 1978
Dean of Students
Bachelor's (B.A.), Bowling Green State University
Master's (M.Ed.), University of Georgia
Specialist (Ed.S.), Pittsburg State University
Doctoral Studies, Oklahoma State University

Albert J. Carnine
Associate Professor, Music 1977
Bachelor's (B.M.E.), Illinois Wesleyan University
Master's (M.M.), Southern Methodist University
Master's (M.M.E.), Southern Methodist University
Doctorate (D.M.A.), University of Texas

Patrick Cassens
Professor, Mathematics 1988
Bachelor's (B.S.), Saint Louis University
Master's (M.S.), Saint Louis University
Doctorate (Ph.D.), Saint Louis University
Post Doctoral Studies, Harvard University

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Master's (M.A.), Eastern Washington University
Doctoral Candidate, College of William and Mary

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Associate Professor, Physics 1995
Bachelor's (B.S.), University of Kentucky
Master's (M.S.), University of Kentucky
Doctorate (Ph.D.), Georgia Institute of Technology

Val A. Christensen
Assistant Professor, Art 1979
Coordinator, Spiva Art Gallery, MSSC
Bachelor's (B.F.A.), University of Nebraska, Lincoln
Master's (M.F.A.), Wichita State University

Charles (Bud) L. Clark
Assistant Professor, Music 1989
Choral Director
Bachelor's (B.M.E.), Central Missouri State University
Master's (M.A.), Central Missouri State University

Robert L. Clark
Professor, Communications 1984
Bachelor's (B.A.), Brigham Young University
Master's (M.A.), Brigham Young University
Doctorate (Ph.D.), University of Oregon

Samuel L. Claussen
Associate Professor, Theatre 1977
Bachelor's (A.B.), Missouri Southern State College
Bachelor's (B.A.), Missouri Southern State College
Master's (M.F.A.), University of Virginia

H. Keith Cochran
Assistant Professor, Psychology 1997
Bachelor's (Th.B.), Florida Baptist Theological College
Master's (M.Div.), New Orleans Baptist Theological Seminary
Master's (M.A.), University of Alabama
Specialist (Ed.S.), University of Alabama
Doctorate (Ph.D.), University of Alabama

K. Casey Cole
Assistant Professor, Psychology 1996
Bachelor's (B.A.), Shippensburg State University of Pennsylvania
Master's (M.A.), Kent State University
Doctorate (Ph.D.), Kent State University

James D. Collins
Assistant Professor, Computer Information Science 1998
Bachelor's (B.S.), Saint Louis University
Master's (M.S.), Southern Illinois University

S. Mark Comstock
Associate Professor, Business 1993
Bachelor's (B.S.B.A.), Missouri Southern State College
Doctorate (Ph.D.), University of Oklahoma
Certified Public Accountant (CPA)
Diplomate, American Board of Forensic Accounting (DABFA)

C. Martin Conklin
Assistant Professor, Kinesiology 1988
Head Athletic Trainer
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.A.), University of Tulsa

Bill Cooke
Assistant Professor, Kinesiology 1988
Assistant Football Coach
Bachelor's (B.A.), Fort Lewis College
Master's (M.A.), Adams State College

Robert L. Corn
Instructor, Kinesiology 1989
Head Men's Basketball Coach
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.A.), University of Alabama at Birmingham

Amalia Coronel
Assistant Professor, Communications 1997
Professor of Spanish Linguistics and Literature, National University of Cordoba Argentina
Master's (M.A.), Mississippi State University
Doctorate (Ph.D.), Temple University

Jimmy C. Couch
Professor, English 1970
Bachelor's (B.A.), Texas Tech University
Master's (M.A.), Texas Tech University
Doctorate (Ph.D.), University of South Carolina

E. Scott Cragin
Assistant Professor, Business 1989
Bachelor's (B.S.), Rose-Hulman Institute of Technology
Master's (M.M.), Northwestern University
Doctoral Studies, Oklahoma State University

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Counselor/Coordinator of College Orientation
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.S.), Southwest Missouri State University

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Bachelor's,University of Siegen
Master's (M.A.), University of Houston
Master's (M.A.), Rice University
Doctorate (Ph.D.), The University of Texas at Austin

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Bachelor's (B.S.), University of Washington
Master's (M.S.), University of Washington
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Bachelor's (B.A.), University of Western Ontario
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Bachelor's (B.S.), Allahabad University, India
Master's (M.S.), McGill University, Canada
Doctorate (Ed.D.), West Virginia University
Additional Studies, Professional Engineer

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Bachelor's (B.A.), Reed College
Master's (M.A.), University of Michigan
Master's (M.F.A.), University of Michigan
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Bachelor's (B.B.A.), University of Arkansas at Monticello
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Bachelor's (B.S.E.), Southwest Missouri State University
Master's (M.S.), University of Arkansas
Graduate Study, University of Arkansas

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Bachelor's (B.S.N.), University of Connecticut
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Bachelor's (B.M.E.), Pittsburg State University
Master's (M.M.), Pittsburg State University
Doctoral Studies, University of Northern Colorado

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Bachelor's (B.S.), North Carolina A & T State University
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Doctorate (Ph.D.), Colorado State University

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Bachelor's (B.A.), Universidade do Estado do Rio de Janeiro, Brazil
Master's (M.A.), Iowa State University
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Professor, Theatre 1987
Head, Department of Theatre
Bachelor's (B.A.), West Liberty State College
Master's (M.A.), West Virginia University
Master's (M.A.), Central Michigan University
Doctorate (Ph.D.), Kent State University
Summer Studies, Oxford University, England

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Bachelor's (B.S.), Southwest Missouri State University
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Professor, Art 1968
Bachelor's (B.A.), Southwest Missouri State University
Master's (M.F.A.), University of Arkansas

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Director of Men's Athletics
Bachelor's (A.B.), University of Wichita
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Director of Special Programs
Bachelor's (A.B.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ph.D.), University of Tulsa
Summer Studies, Oxford University, England

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Assistant Professor, Chemistry 1997
Bachelor's (B.S.), Missouri Southern State College
Doctorate (Ph.D.), University of Kansas

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Bachelor's (B.A.), University of California, Riverside (Sociology)
Master's (M.A.), University of California, Riverside
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Director of Student Financial Aid
Bachelor's (A.B.), University of Missouri
Master's (M.A.), Southwest Missouri State University
Specialist (Ed.S.), Pittsburg State University

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Director of Learning Center
Bachelor's (B.A.), East Texas State University
Master's (M.S.), East Texas State University
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Professor, Business 1968
Bachelor's (B.S.), Pittsburg State University
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Dean, School of Business Administration
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Certified Systems Professional (CSP)

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Bachelor's (B.A.), Northeast Louisiana State College
Master's (M.A.), Northeast Louisiana State College
Doctoral Studies, North Texas State University

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Instructor, Kinesiology 1998
Head Football Coach
Bachelor's (B.A.), University of Richmond
Graduate Studies, University of Virginia

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Professor, Psychology 1978
Head, Department of Psychology
Bachelor's (B.A.), East Carolina University
Master's (M.A.), University of South Carolina
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Professor, Sociology 1967
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), Oklahoma State University
Post Doctoral Studies, Columbia University/University of Chicago
Fellow with the National Council on US—Arab Relations, Washington, DC
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Associate Professor, Communications 1996
Bachelor's (B.A.), University of Maryland, European Division, West Germany
Bachelor's (B.A.), Abilene Christian University
Master's (M.A.), University of Oklahoma
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Bachelor's (B.S.), University of Missouri — Rolla
Master's (M.S.), Central Missouri State University
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Master's (M.A.), University of Oklahoma
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Head, Department of Music & Director of Bands
Bachelor's (B.M.E.), University of Central Oklahoma
Master's (M.M.E.), University of Central Oklahoma
Doctoral Studies, Michigan State University

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Bachelor's (B.S.), Missouri Southern State College
Master's (M.B.A.), Pittsburg State University
Certified Data Processor (CDP)

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Bachelor's (B.S.), Fort Hays State University
Master's (M.A), Pittsburg State University
Graduate Study, Pittsburg State University, East Texas State, Wichita State University

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Assistant Professor, Kinesiology 1991
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Baylor University

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Associate Professor, Teacher Education 1984
Bachelor's (B.A.), University of Iowa
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Professor, 1980
Director of Assessment and Institutional Research
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.Ed.), University of Missouri — Columbia
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ph.D.), University of Missouri—Columbia
Summer Studies, Oxford University, England

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Professor, 1995
Dean, School of Education
Bachelor's (A.B.), Indiana University
Master's (M.S.), Indiana University at South Bend
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Bachelor's (B.S.), Shanghai Institute of Foreign Trade
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Master's (M.A.), University of Hawaii at Manoa
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Bachelor's (B.S.N.), Regis University
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Additional Study, Clinical Specialist in Child/Adolescent Psychiatric/Mental Health Nursing

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Assistant Professor, Psychology 1996
Bachelor's (B.S.), The Pennsylvania State University
Master's (M.S.), Rutgers, The State University of New Jersey
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Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Northeastern State University
Graduate Studies, Ed.S. at Pittsburg State University

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Master's (M.A.), University of Arkansas
Graduate Study, University of Arkansas

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Technical Services Librarian
Bachelor's (B.A.), Oberlin College
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Master's (M.S.L.), Western Michigan University
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Bachelor's (B.S.), Colorado State University
Master's (M.A.), University of Northern Colorado
Doctorate (Ph.D.), Rutgers State University
Visiting Scholar, Wolfson College Oxford University, England

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Bachelor's (B.F.A.), University of Illinois
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Bachelor's (B.A.), University of Rajputana, India
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Master's (M.A.), University of Texas, El Paso
Doctorate (Ph.D.), University of Missouri

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Bachelor's (B.S.E.), East Central University
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Doctoral Studies, University of Oklahoma

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Bachelor's (B.S.), Arkansas Tech University
Master's (M.S.), Oklahoma State University
Doctorate (Ed.D.), Oklahoma State University

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Bachelor's (B. A.), University of Texas — Austin
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Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Emporia State University
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Bachelor's (B.A.), Missouri Southern State College
Bachelor's (B.S.), Missouri Southern State College
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Master's (M.L.S.), University of Oklahoma
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Master's (M.B.A.), Southern Illinois University
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Bachelor's (B.A.), Missouri Southern State College
Master's (M.A.), University of Minnesota
Doctorate (Ph.D.), The University of Tulsa
Post Doctoral Studies, Christ Church College, Oxford University, Oxford, England, & University of Ulster, Coleraine, Northern Ireland

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Professor, Geophysics 1989
Bachelor's (A.B.), University of California Berkeley
Master's (M.S.), University of Washington
Doctorate (Ph.D.), University of Washington
Summer Studies, Oxford University, England

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Bachelor's (B.S.), Oklahoma State University
Master's (M.S.), University of Oklahoma
Additional Studies, Emergency Medical Technician, Hazardous Waste Operations and Emergency Response

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Bachelor's (B.S.), Kent State University
Master's (M.A.), Kent State University
Graduate Study, Summer 1995 in Madrid, Spain through University of Minnesota and the Fundación Ortega y Gassett

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Instructor, EMT — Paramedic 1995
Director, EMS Training
Bachelor's (B.A.), University of Missouri—Kansas City

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Doctorate (Ph.D.), State University of New York at Buffalo

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Master's (M.A.), Purdue University

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Bachelor's (B.A.), Pittsburg State University
Master's (M.A.), Pittsburg State University
Doctorate (Ph.D.), University of Arkansas

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Professor, Business 1987
Holder of J.R. Kuhn Chair in Finance
Bachelor's (B.S.), Pittsburg State University
Master's (M.B.A.), Memphis State University
Doctorate (Ph.D.), University of Mississippi

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Bachelor's (B.S.), North Dakota State University
Master's (M.A.), North Dakota State University
Doctoral Candidate, University of Missouri-Columbia

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Bachelor's (B.S.), University of Missouri — Rolla
Master's (M.A.), University of Missouri — St. Louis

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Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

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Professor, Business 1969
President
Bachelor's (A.B.), Universidad Tecnica del Estado (Chile)
Master's (M.B.A.), North Texas State University
Doctorate (Ph.D.), University of Arkansas

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Women's Softball Coach
Bachelor's (B.S.E.), Northwest Missouri State University
Master's (M.S.), Kansas State University
Doctorate (Ed.D.), University of Arkansas

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Assistant Professor, Music 1991
Master's (M.M.), East Carolina University
Doctorate (D.M.A.), University of North Carolina

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Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), University of Illinois
Graduate Study, University of Illinois, Southern Methodist University, Clemson University, University of Arkansas

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Assistant Professor, Sociology 1996
Bachelor's (B.G.S.), Kent State University
Master's (M.A.), Kent State University
Doctorate (Ph.D.), Kent State University

Melissa Anne Locher
Instructor, Learning Center 1995
Bachelor's (B.S.), SUNY College at Buffalo
Master's (M.S.Ed.), University of Kentucky

Chris Lowery
Instructor, Kinesiology 1999
Bachelor's (B.S.), Southern Illinois University - Carbondale
Master's Studies, Southwest Missouri State University

Terry D. Marion
Professor, Business 1976
International Trade and Quality Center
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.S.), Pittsburg State University
Specialist (Ed.S.), Pittsburg State University
A.B.D., University of Arkansas

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Associate Professor, History 1967
Bachelor's (B.S.), Monmouth College
Master's (M.A.), University of Oklahoma
Doctorate (Ph.D.), University of Oklahoma

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Professor, English 1971
Bachelor's (B.A.), St. Francis College
Master's (M.A.), University of Dayton
Doctorate (Ph.D.), University of New Mexico
Post Doctoral Studies, Dartmouth College, Yale University, University of California – Berkeley
International Wordsworth Conference in Grasmere, England

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Assistant Professor, Physics 1997
Bachelor's (B.A.), Drury College
Master's (M.S.), University of Arkansas
Doctorate (Ph.D.), University of Missouri - Rolla

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Professor, Mathematics 1965
Dean, School of Arts and Sciences
Bachelor's (B.S.), University of Tulsa
Master's (M.S.), University of Tulsa
Doctorate (Ed.D.), University of Georgia

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Professor, Computer Information Science 1981
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), University of Washington
Doctoral Studies, University of Washington

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Associate Professor, Psychology 1990
Bachelor's (B.S.), Graceland College
Master's (M.S.Ed.), University of Kansas
Doctorate (Ph.D.), University of Kansas

Jeanne McGonigle
Assistant Professor, Nursing 1996
Bachelor's (B.S.N.), University of California — San Francisco
Master's (M.S.N.), University of California — San Francisco
C.S., Advanced Practice Certification, Clinical Specialist, Medical-Surgical Nursing
Graduate Study, University of Missouri – Kansas City

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Assistant Professor, English 1999
Bachelor's (B.A.), University of Colorado
Master's (M.A.), University of Texas
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Professor, Communications 1982
Bachelor's (B.A.), Drew University
Master's (M.A.), Ohio University
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Professor, Biology 1984
Head, Department of Biology
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Master's (M.S.), University of Idaho
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Professor, Sociology 1985
Head, Department of Social Science
Bachelor's (B.A.), Henderson State University
Master's (M.A.), Memphis State University
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Master's (M.A.), Central Missouri State University
Graduate Study, University of Arkansas, Purdue

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Bachelor's (B.A.), Southern Illinois University — Carbondale
Master's (M.A.), Southern Illinois University — Carbondale
Doctorate (Ph.D.), Southern Illinois University — Carbondale

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Master's (M.A.), University of Southern Mississippi
Doctorate (Ph.D.), University of Colorado

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Master's (M.S.), University of Idaho
Doctorate (Ph.D.), University of Idaho
Post Doctoral Studies, University of Alberta, Edmonton

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Master's (M.S.), University of Arkansas
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Bachelor's (B.A.), University of Tubingen, Germany
Master's (M.A.), University of Kansas – Lawrence
Doctorate (Ph.D.), University of California – Los Angeles

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Professor, Psychology 1985
Bachelor's (B.A.), University of Colorado
Master's (M.A.), University of Colorado
Doctorate (Ph.D.), Georgia Institute of Technology

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Master's (M.A.), Northwestern University
Doctorate (Ph.D.), University of Iowa

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Master's (M.S.Ed.), University of Kansas
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Master's (M.A.), California State University, Fresno
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Archivist/Reference Librarian
Bachelor's (A.B.), Missouri Southern State College
Master's (M.A.), University of Texas at Arlington
Master's (M.A.), University of Missouri - Columbia
Certificate of Archival Administration (CAA)

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Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), University of Wisconsin
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Wellness Director
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Master's (M.S.), Oklahoma State University
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Master's (M.Acct.), University of Oklahoma
Certified Public Accountant (CPA)

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Professor, Psychology 1976
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Circulation Librarian
Bachelor's (B.A.), Newcomb College, Tulane University
Master's (M.A.), University of Iowa

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Bachelor's (B.S.), School of the Ozarks
Master's (M.S.), University of Missouri at Rolla (Applied Mathematics)
Master's (M.S.), University of Missouri at Rolla (Computer Science)

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Master's (M.S.), University of Missouri—Columbia
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Bachelor's (B.S.), University of Missouri — Columbia
Master's (M.S.), Oklahoma State University
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Bachelor's (B.S.), Central Missouri State University
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Master's (M.S. Acct.), University of Tulsa
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Director of Clinical and Field Experiences
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Master's (M.S.), Pittsburg State University
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Master's (M.A.), Pittsburg State University
Doctoral Studies, University of Tulsa

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Graduate Studies, University of Northern Iowa, Laverne University, Arkansas State University, Northern Illinois University

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Post Graduate Studies, University of Alabama, University of Missouri – Kansas City

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J. J. Spurlin
Instructor, Criminal Justice 1998
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University
Post Certified Instructor – Child Abuse, Domestic Violence, Firearms

Annetta E. St. Clair
Associate Professor, Political Science 1964
Bachelor's (A.B.), Pittsburg State University
Master's (M.A.), Pittsburg State University
Master's (M.S.), Pittsburg State University

Chad D. Stebbins
Associate Professor, Communications 1984
Director, Institute of International Studies
Bachelor's (B.S.), Missouri Southern State College
Master's (M.A.), Central Missouri State University
Doctorate (Ph.D.), Bowling Green State University

William R. Stevens
Professor, Business 1988
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.Ed.), Central Missouri State University
Doctorate (Ph.D.), University of Arkansas

Tia Marie Strait
Assistant Professor, Dental Hygiene 1991
Assistant to the Dean, School of Technology
Associate's (A.S.), Missouri Southern State College
Bachelor's (B.G.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University
Doctoral Studies, Saint Louis University

John H. Summerfield
Assistant Professor, Chemistry 1995
Bachelor's (B.S. — General Studies), Portland State University
Bachelor's (B.S. — Chemistry), The Evergreen State College
Doctorate (Ph.D.), Oregon State University

Pedro L. Talavera-Ibarra
Assistant Professor, Communications 1995
Bachelor's (B.A.), University of the Peoples' Friendship; Moscow, Russia
Master's (M.A.), University of the Peoples' Friendship; Moscow, Russia
Master's (M.A.), University of Texas at Austin
Doctoral Studies, University of Texas at Austin

William Z. Tannenbaum
Assistant Professor, History 1991
Bachelor's (B.A.), University of California — Davis
Master's (M.A.), University of California — Davis
Master's (M.A.), Stanford University
Doctorate (Ph.D.), Stanford University
Post Graduate Studies, University of Munich, Hebrew University, Tel Aviv University

Robert R. Terry
Assistant Professor, Criminal Justice 1974
Head, Department of Criminal Justice
Bachelor's (B.S.), Truman State University
Master's (M.S.), Pittsburg State University
Graduate Study, Pittsburg State University

Paul Teverow
Professor, History 1982
Bachelor's (B.A.), Case Western Reserve University
Master's (M.A.), Ohio State University
Doctorate (Ph.D.), Ohio State University
Summer Studies, Oxford University, England

Charles C. Thelen
Professor, Music 1973
Bachelor's (B.A.), Occidental College
Master's (M.A.), University of Northern Colorado
Doctorate (Ed.D.), University of Northern Colorado

Tran Van Thuong
Associate Professor, Mathematics 1987
Bachelor's (B.A.), Washburn University
Master's (M.A.), University of Kansas
Doctorate (Ph.D.), University of Utah

John W. Tiede
Professor, Business 1968
Senior Vice President
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.B.A.), University of Arkansas
Law Degree (Juris Doctorate), University of Missouri
Post Doctoral Studies, Harvard University

Amy L. Townsend
Instructor, Kinesiology 1997
Head, Women's Basketball Coach
Bachelor's (B.S.E.), Pittsburg State University
Master's (M.A.), Pittsburg State University

Debra Traywick
Assistant Professor, Kinesiology 1988
Women's Volleyball Coach
Bachelor's (B.S.E.), Southern Nazarene University
Master's (M.Ed.), Central State University

L. Hartford Tunnell
Assistant Professor, Computer Information Science 1985
Bachelor's (B.A.), Texas A & M University
Master's (M.Ed.), Southwest Texas State University
Certified Data Processor (CDP)
Certified Systems Professional (CSP)
Graduate Study, Incarnate Work College, St. Mary's University, Southwest Texas State University, Southwest Missouri State University

Warren F. Turner
Associate Professor, Kinesiology 1976
Head Baseball Coach
Bachelor's (B.S.E.), Pittsburg State University
Master's (M.S.), Pittsburg State University

Harry Van Arsdale
Instructor, Kinesiology 1998
Assistant Football Coach
Bachelor's (B.S.E.), Peru State College
Master's (M.Ed.), James Madison University

Patricia D. Vavra
Instructor, Kinesiology 1994
Head Women's Cross Country/Track and Field Coach
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

Juan L. Vazquez
Associate Professor, Mathematics 1992
Head, Department of Mathematics
Bachelor's (B.A.), University of Puerto Rico
Master's (M.Ed.), University of Illinois
Doctorate (Ph.D.), University of Florida

T. A. Vernon
Associate Professor, Business 1988
Bachelor's (B.S.), University of Tennessee — Knoxville
Master's (M.B.A.), University of Mississippi
Doctorate (D.B.A.), Louisiana Tech University
CQE (Certified Quality Engineer)

Bryan Vescio
Assistant Professor, English 1999
Bachelor's (B.A.), University of Wisconsin-Madison
Master's (M.A.), University of Virginia
Doctorate (Ph.D.), University of Virginia

Doris A. Walters
Professor, English 1979
Director of Writing Program
Bachelor's (B.S.E.), Pittsburg State University
Master's (M.A.), Pittsburg State University
Doctorate (Ph.D.), University of Arkansas

Helen N. Weaver
Instructor, Mathematics 1989
Bachelor's (B.S.), Baker University
Master's (M.A.), University of Kansas

Maryann Weber
Professor, Communications 1993
Bachelor's (B.A.), Notre Dame College
Master's (M.A. — French), Middlebury College
Master's (M.A. — Spanish), Middlebury College
Doctorate (D.M.L.), Middlebury College
Advanced Study, Universite de Paris X, Universite de Laval, Universite de Dakar

N. Ree Wells
Associate Professor, Sociology 1993
Bachelor's (B.S.), Louisiana State University
Master's (M.A.), Louisiana State University
Doctorate (Ph.D.), Louisiana State University

Scott J. Wells
Associate Professor, Biology 1993
Doctorate (D.V.M.), University of Missouri

Rhonda L. White
Assistant Professor, Dental Hygiene 1987
Bachelor's (B.S.), University of Missouri — Kansas City

Philip R. Whittle
Professor, Chemistry 1970
Director of MSSC Regional Crime Laboratory
Bachelor's (B.S.), University of Kentucky
Doctorate (Ph.D.), Iowa State University
Post-Doctoral Fellow, University of Colorado

R. Jerry Williams
Assistant Professor, Continuing Education 1986
Director of Continuing Education
Bachelor's (B.S.), University of Nebraska
Master's (M.A.), Bowling Green State University
Doctorate (Ed.D.), Oklahoma State University

Phillip C. Wise
Assistant Professor, Music 1995
Bachelor's (B.A.), William Penn College
Master's (M.A.), California State University, Dominguez Hills
Doctorate (Ph.D.), The Union Institute

C. Blake Wolf
Associate Professor, Criminal Justice 1990
Bachelor's (B.S.), Missouri Southern State College
Law Degree (Juris Doctorate), University of Arkansas

Edward W. Wuch
Associate Professor, Library 1969
Audio-Visual & Government Documents Librarian
Bachelor's (B.S.), University of Missouri
Master's (M.Ed.), University of Missouri
Doctoral Studies, Arizona State University

Michael L. Yates
Professor, Political Science 1980
Bachelor's (B.A.), Southern Illinois University
Master's (M.Ed.), Southern Illinois University
Law Degree (Juris Doctorate), University of Missouri
Summer Studies, Oxford University, England

Jennifer H. Yazell
Instructor, Career Services 1993
Bachelor's (B.S.), Central Missouri State University
Master's (M.A.), Central Missouri State University

Karolyn L. Yocum
Professor, Communications 1986
Bachelor's (B.S.E.), Kansas State College
Master's (M.S.), Kansas State College
Specialist (Ed.S.), Central Missouri State University
Doctorate (Ph.D.), Ohio State University

Donald R. Youst
Assistant Professor, Political Science 1971
Bachelor's (B.A.), Kansas State Teachers College — Emporia
Master's (M.S.), Kansas State Teachers College — Emporia
Doctorate (Ph.D.), University of Nebraska

Emeritus Faculty

Enid Blevins
English 1966

Loretta Frazier
Head Librarian 1948

J. Merrell Junkins
Psychology 1963

Cleetis Headlee
English 1946

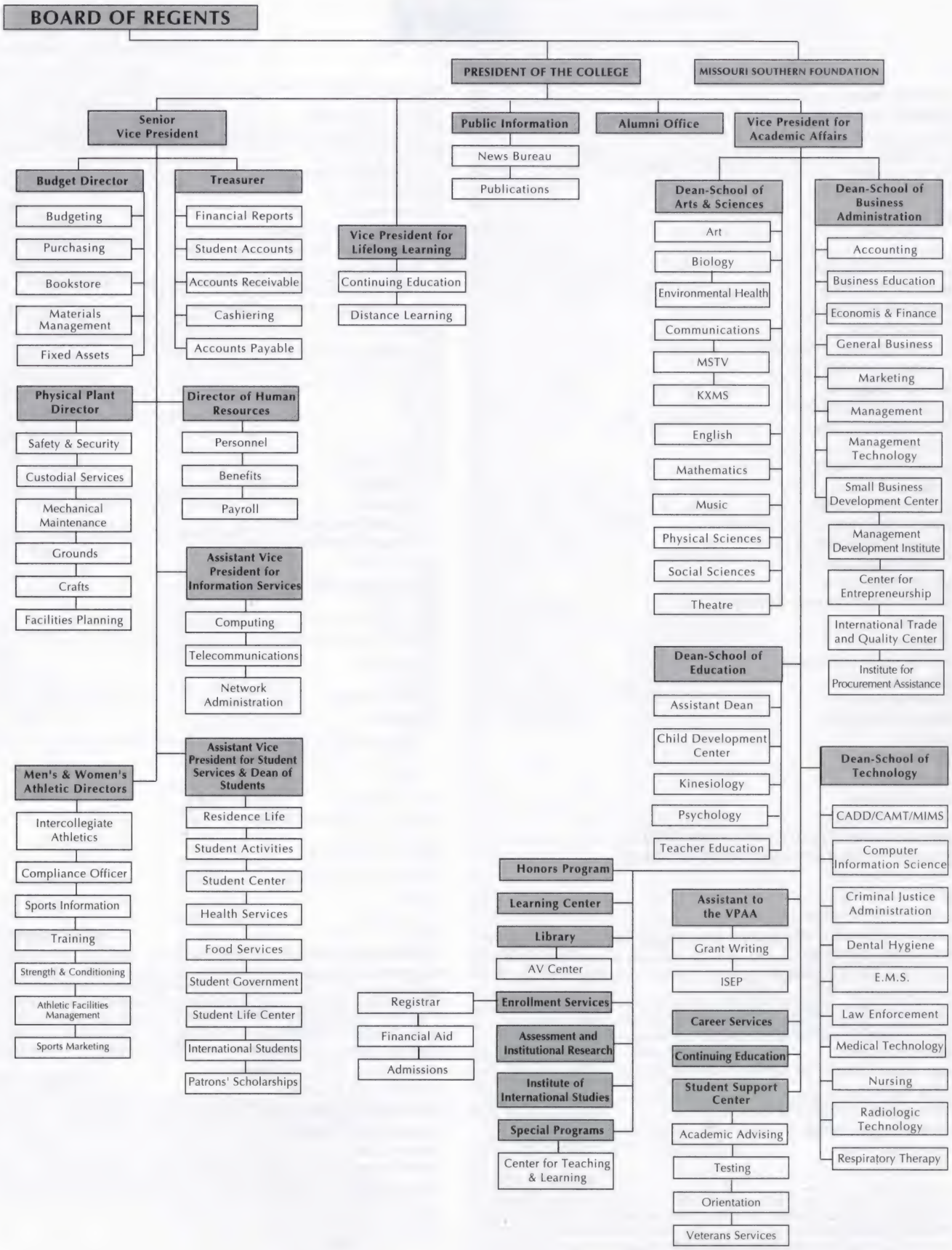
Julie S. Hughes
History 1963

Grace C. Mitchell
English 1958

Gail Renner
Social Science (History) 1965

Dorothy A. Stone
Business Administration 1939

(Date is first year of service.)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Strength & Conditioning
Athletic Facilities Management
Sports Marketing
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Art
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Criminal Justice Administration
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Honors Program
Learning Center
Library
AV Center
Registrar
Enrollment Services
Financial Aid
Admissions
Assessment and Institutional Research
Institute of International Studies
Special Programs
Center for Teaching & Learning
Assistant to the VPAA
Grant Writing
ISEP
Career Services
Continuing Education
Student Support Center
Academic Advising
Testing
Orientation
Veterans Services

Index

Equal Opportunity

Missouri Southern State College does not discriminate on the basis of disability, race, color, religion, national origin, sex or age in the recruitment and admission of students, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

Disability Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If any person has a special need, please contact the Director of the Learning Center who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility or provide other assistance as required by law. Information concerning accessible facilities is available from the Director of the Learning Center.

Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

1. The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.
2. The disclosure is to school officials, including teachers, who have a legitimate education interest.
3. The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
4. The disclosure is in connection with a health or safety emergency.
5. Other situations listed in 34CFR 99.31.

Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Honors Program Application

Miss
Ms.
Mrs.
Name Mr. _____
Last First Initial

Social Security No: _____ - _____ - _____ **Telephone No:** (____) _____

Address: _____
Street City State Zip

Highest ACT Composite Score: _____
Test Date: _____
Have you been admitted to MSSC? Yes ❑ No ❑
If not, please apply at once.

Have you applied for financial aid? Yes ❑ No ❑
If not, please consider doing so.

High School: _____ GPA: _____

Year of Graduation: _____ Class Standing: ____/____

Intended Major: _____

For already enrolled or transfer student

College or University Attended: _____

Hours Completed: _____ GPA: _____

Quarter System _____

Semester System _____

Please list the names of the two people you plan to ask for references.

_____
Name Title

_____
Name Title

Check below if one applies.

❑ National Merit Finalist
❑ National Merit Semi-Finalist
❑ National Merit Letter of Commendation

Please list awards, extracurricular activities, and interests below. Attach a separate sheet if necessary.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

For Office Use Only
Action taken:

_____
Signature Date

INSTRUCTIONS

REQUIREMENTS

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

APPLICATIONS PROCEDURES

Incoming Freshman

* A completed **APPLICATION FORM** must be filed.
* Please request that an official high school **TRANSCRIPT** be sent directly to the Honors Program.
* Your **ACT RESULTS** must be on record, either separately or on your transcript.
* Arrange to have two **LETTERS OF RECOMMENDATION** sent directly to the Honors Program, one from high school principal and one from one of your high school teachers. Additional letters are also invited.
* You need to arrange for an **INTERVIEW**.
* You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

* A completed **APPLICATION FORM** must be filed.
* Please request that an official college **TRANSCRIPT** be sent directly to the Honors Program.
* Your **ACT RESULTS** must be on record, either separately or on your transcript.
* Arrange to have two **LETTERS OR RECOMMENDATION** from you college instructors sent directly to the Honors Program. Additional letters are also invited.
* You will need to arrange for an **INTERVIEW**.
* You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, application materials, including the interview must be complete by March 1; for the spring semester all materials should be received by November 15.

Send all application materials to:

Missouri Southern State College
Honors Program Director
3950 E. Newman Rd.
Joplin, MO 64801-1595
Telephone: In Joplin 1-417-625-9300 or 625-3005
Toll-Free: 1-800-606-MSSC (6772)

Missouri Southern State College is an equal opportunity and affirmative action institution.
The college reserves the right to amend regulations when necessary.

Patron's Scholarship Application

Please complete application on *both* sides

Missouri Southern State College
Scholarship Room 117
3950 E. Newman Road
Joplin, Missouri 64801-1595
(417) 625-3161

Office Use

Need _____ Code _____ GPA_____
Scholarship_____
Donor_____
Address_____
_____

Note: By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

How to apply:
1. Must apply or have applied for admission .
2. Transfer students must have transcripts on file with Registrar's Office.
3. **Type** or **Print** application.

Name _____
First Middle Last Maiden

Social Security Number _____ **Phone** _____

Address _____
Number of Street City State Zip County

Male _____ Female_____ Married _____ Single _____ GED _____

Date of High School Graduation _____ High School _____

City/State _____ Transfer _____ Anticipated semester to attend MSSC _____

Entering Freshman _____ Freshman _____ Sophomore _____ Junior _____ Senior _____

Major _____ Minor _____

Check criteria which apply to you.

1. Student Nurses' Association (SNA)
2. Communication (major)
3. Non-traditional student
4. Beimdiek Insurance employee
5. Son or daughter of MSSC alumni
6. Graduate - top half of class
7. Father or grandfather Lions
8. Interested in technology major
9. Single parent

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed or disability.

Statement of certification: If I am awarded a scholarship program administered by Missouri Southern State College I must meet satisfactory academic progress.

(see other side)

Entering Freshmen or New College Transfer Students only-

Application will not be processed unless this section is completed and signed by your HS Counselor/Principal or College Registrar.

(HS) School GPA on a 4.00 grade point system _____ (College) Last semester completed GPA _____

Signature _____ Title _____

Date _____

Please do not send transcript to Financial Aid Office

Are you receiving any of the following scholarships? Non-Residency _____ Junior College Transfer _____ Regents _____ Honors _____ President's _____ Deans' _____ Performing Aid _____Athletic _____ Other List _____

Are you currently employed? _____ If yes, list place of employment _____

(If dependent) Father's employer _____

(If dependent) Mother's employer _____

(If married) Spouse's employer _____

PLEASE COMPLETE THE FOLLOWING:

Scholastic honors: _____

_____

Activities: _____

_____

Organizations: _____

_____

Volunteer Work: _____

_____

I further understand that application to the scholarship program must be turned in prior to March 1 for consideration.

1. **Students may not receive more than one scholarship issued by the College.**
2. **Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.**
3. **All scholarships are issued for one year only.**
4. **All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.**

Date Signed _____ Signature _____

Missouri Southern State College

Application for Admission

PERSONAL INFORMATION

Name _____
Last First Middle Preferred name Maiden/Former name

Social Security Number _____-_____-_____ Sex ❑ Male ❑ Female

Are you a veteran? ❑ Yes ❑ No Are you eligible for Veterans Educational Benefits? ❑ Yes ❑ No

Date of Birth: Month _____ Day _____Year_____ E-mail Address _____

Permanent mailing address:
Street or Route _____ City _____ St _____ Zip _____

County _____ How long have you resided at the above address? _____ years.

If less than 1 year, indicate address for past year. _____

Telephone (_____)_____ (_____)_____
Home Phone Work Phone

What is your racial background? (circle) (Optional)

African American Asian or Pacific Islander Caucasian Hispanic Native American or Alaskan Native Other

Are you a U.S. Citizen? ❑ Yes ❑ No If no, what visa do you hold? _____

If no, country of birth _____

Is English your native language? ❑ Yes ❑ No If no, indicate your native language _____

Do you plan to live in the residence halls? ❑ Yes ❑ No

Would you like an application for housing? ❑ Yes ❑ No

I am applying as a

- ❑ First Time Freshman
- ❑ Transfer Student
- ❑ International Student
- ❑ Post Graduate Student
- ❑ Former MSSC Student
- ❑ Dual Credit Student
- ❑ Credit-in-Escrow Student

What field of study (major) are you considering? _____
(If you are not sure, please list undecided. Our Counseling Services Office will help you choose a major later.)

The college term in which you expect to enroll: Fall 19_____ Spring 19_____ Summer 19_____

ACADEMIC INFORMATION

Beginning with the most recent, list every high school, college or university you have attended. (including work completed during high school)

_____, _____, ____/ _____/ _____/ _____
School Name City State From To Graduation

_____, _____, ____/ _____/ _____/ _____
School Name City State From To Graduation

_____, _____, ____/ _____/ _____/ _____
School Name City State From To Graduation

_____, _____, ____/ _____/ _____/ _____
School Name City State From To Graduation

Are you currently on suspension from any college? ❑ Yes ❑ No

If yes, Name of college _____ Semester and year of suspension _____

Have you been immunized against: a. Measles? (2 doses) ❑ Yes ❑ No b. Rubella? ❑ Yes ❑ No

Have you ever been convicted of, or pleaded guilty to a felony? ❑ Yes ❑ No
If yes, explain on a separate sheet of paper.

Father/Guardian's Name _____ Employer _____

Phone Numbers(____)_____ (____) _____ Level of Education/College Attended _____
Home Work

Mother/Guardian's Name _____ Employer _____

Phone Numbers (____)_____ (____)_____ Level of Education/college Attended _____
Home Work

List siblings and their ages _____
(Indicate Relationship)

Please list relatives who are MSSC students or alumni _____
(Indicate Relationship)

Next of kin (in case of emergency) _____ Phone _____

Street_____City_____ST_____Zip_____

Why did you choose to apply to MSSC? _____

Who did you find most helpful in the MSSC admission process? _____

Missouri Southern State College does not discriminate on the basis of sex, race, creed, color, national origin, disability, or age in its educational programs or activities. For further information concerning disability accessibility, contact the Disability Services Coordinator, Melissa Locher at 417-625-9516.

I certify that the information provided is complete and correct to the best of my knowledge, and that I have read the admission and transcript requirements.

(Signature) _____ (Date submitted) _____

Missouri Southern State College

Minimum Core Curriculum

Student Reporting Form

Meeting the Requirements

All high school graduates who graduate Spring 1996 or after must complete the following core requirements for college admission beginning Fall 1996.

COORDINATING BOARD FOR HIGHER EDUCATION MINIMUM CORE CURRICULUM REQUIREMENTS

Subject	Minimum Core Curriculum	Comments about Minimum Core Curriculum Requirements
English	4	2 units must emphasize writing
Math	3	Algebra 1 and higher
Social Studies	3	must have American history and at least one semester of government.
Science	2	one must be a lab course
Visual/Performing Arts	1	
Additional core electives from any of the above areas	3 2 years of a foreign language strongly recommended	Acceptable math elective: computer science with prerequisite of Algebra 1; Social studies elective: State/international history

Please complete the chart below using your high school transcript. List the title of the course in the appropriate box.

Make a notation by any course that was taken as dual credit/college credit, honors, or advanced placement (AP). Transfer students do not need to complete this section.

Subject	9th Grade	10th Grade	11th Grade	12th Grade	Total
English 4 Units					
Mathematics 3 Units					
Social Studies 3 units					
Science 2 Units; 1 must be a lab course					
Visual /Performing Arts 1 Unit					
Core Electives /Foreign Language 3 Units					

HONORS PROGRAM

To be eligible to apply to the Honors Program as an entering freshman, you must have a composite score of 28 or above on the ACT or a high school grade point average (GPA) of at least 3.5.

Transfer students completing at least 15 semester hours, but fewer than 30 semester hours with a grade point average of at least 3.5 from an accredited college or university are also eligible to apply.

❑ Check here if you would like your application considered by the Honors program.

Here is a checklist of what you should send us:

- ❑ Completed application for Admission by March 1 for Fall entrance, and Nov. 15 for Spring semester
- ❑ ACT or SAT Scores
- ❑ High school transcript (Transfer students should also submit college transcripts)
- ❑ Two letters of recommendation; One from your Principal and one from a teacher
- ❑ Arrange for an interview by calling the Honors Program Office (417)625-3005 or (800)606-MSSC
- ❑ Submit an activities and Honors resume listing extracurricular activities, awards received, leadership positions

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PATRONS SCHOLARSHIP

❑ Check here if you would like your application considered for a patron's scholarship

Here is a checklist of you should send us us:

- ❑ Submit a completed application for admission by March 1 for Fall, Nov. 15 for Spring
- ❑ Submit a high school or college transcript
- ❑ Submit an activities and Honors resume

Check Criteria which apply to you:

1. Student Nurses' Association (SNA) ___
2. Non-traditional student ___
3. Beimdiek Insurance employee ___
4. Son or Daughter of MSSC alumni ___
5. Graduate – top half of class ___
6. Father or grandfather Lions Club Member ___
7. Interested in technology major ___

Residence Hall Information

On Campus residence requirements

All freshmen and sophomores under the age of 21 are required to live in Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Dean of Students.

General Information

Missouri Southern houses over 500 students on campus. The two main residence halls are Blaine Hall (200 men) and McCormick Hall (100 women). Apartment-style units house an additional 250 students.

The rooms on campus are furnished with twin size extra long beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, mini blinds, night stands, and free local telephone service is provided along with voice mail and individual access codes. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, coffee table, refrigerators and microwaves.

All residence hall facilities are air-conditioned. Cable TV, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The Residence Halls are staffed by two full-time professional Resident Directors who are assisted by a paraprofessional staff of 18 Staff Assistants.

Resident students are also entitled to food service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call: Missouri Southern State College
Residence Life Office
(417) 625-9522
1-800-606-MSSC toll free

or write: Missouri Southern State College
Residence Life Office
3950 E. Newman Rd.
Joplin MO 64801-1595

Request for application

Complete and return the form below to receive a Contract for Room and Board Accommodations

Name _____ Date _____
(Last) (First) (Middle)

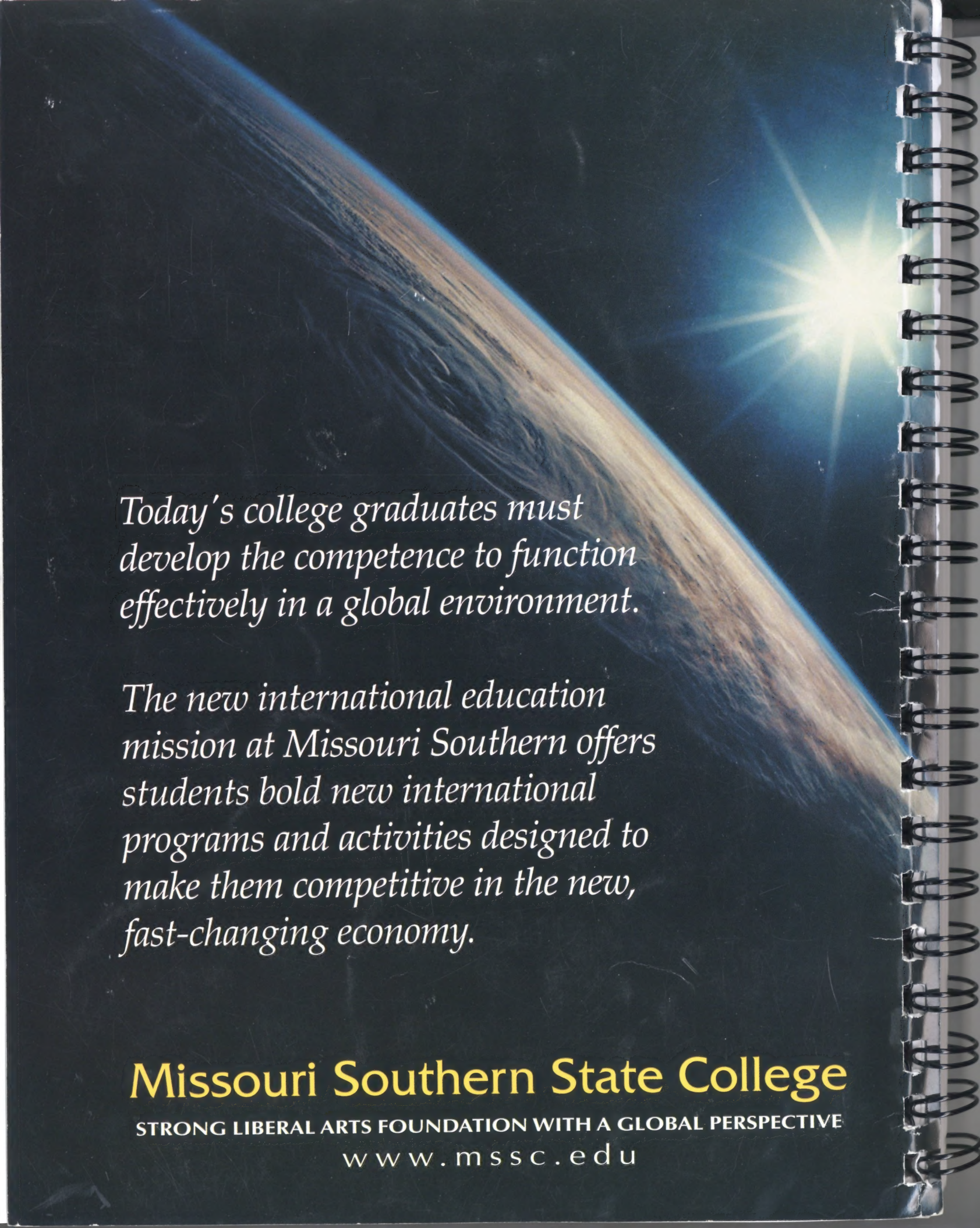
Address _____
(Street) (City) (State) (Zip Code)

Telephone (_____) _____

Detach and return this form to: Missouri Southern State College
Residence Life Office
3950 E. Newman Road
Joplin, MO 64801-1595

Semester entering MSSC Residence Halls: _____ Fall _____ Spring _____Year


MISSOU.
20
SOUTHERN


Today's college graduates must develop the competence to function effectively in a global environment.
The new international education mission at Missouri Southern offers students bold new international programs and activities designed to make them competitive in the new, fast-changing economy.
Missouri Southern State College
STRONG LIBERAL ARTS FOUNDATION WITH A GLOBAL PERSPECTIVE
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